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Ms. Tonya Howell
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Region 7 – SUPRMOKS
Kansas City, Kansas 66101

Subject: Submittal of Preliminary Phase 1 Site Characterization Summary Report
Oak Grove Village Well Superfund Site - Operable Unit No. 2 (OU2)
City of Sullivan Landfill - Franklin County, Missouri
U.S. EPA Region 7, Docket No. CERCLA-07-2009-014

Dear Ms. Howell:

ARCADIS, on behalf of TRW Automotive U.S. LLC (TRW), is submitting the Preliminary Phase 1 Site Characterization Summary Report to the U.S. Environmental Protection Agency (EPA) pursuant to the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study (AOC) for the Oak Grove Village Well Superfund Site – Operable Unit No. 2. In addition, a copy of the Summary has been submitted to Ms. Candice McGhee of the Missouri Department of Natural Resources.

If you have questions or comments concerning the enclosed Work Plans, please contact the Project Coordinator, Mr. Paul Jack at (724) 275-7373.

Sincerely,

ARCADIS

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Our ref.
KC001590.0001

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3.0

OU02



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TRW Automotive U.S. LLC

**Phase 1 Preliminary
Site Characterization
Summary Report**

Oak Grove Village Well Superfund Site
Operable Unit No. 2
City of Sullivan Landfill – Franklin County, Missouri
USEPA Region 7, Docket No. CERCLA-07-2009 014

May 13, 2013



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**Preliminary Phase 1
Site Characterization
Summary Report**
Superfund Site
Operable Unit No. 2
City of Sullivan Landfill – Franklin
County, Missouri
USEPA Region 7, Docket No.
CERCLA-07-2009 014

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**Phase I Preliminary
Site Characterization
Summary Report**

Oak Grove Village Well
Superfund Site – OU2
City of Sullivan Landfill

1. Introduction

This Phase I Preliminary Site Characterization Summary Report (report) describes the implementation and findings of the Phase 1 Site Characterization, an environmental site investigation conducted between 2010 and 2012 to evaluate the City of Sullivan Landfill (Landfill), located in Operable Unit 2 (OU2) of the Oak Grove Village Well Superfund Site in Franklin County, Missouri. On behalf of TRW Automotive U.S. LLC (TRW), ARCADIS U.S., Inc. (ARCADIS) performed the Site Characterization at the Landfill in accordance with the Work Plan for Remedial Investigation and Feasibility Study (work plan [ARCADIS 2010]) and pursuant to the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study (AOC) between the United States Environmental Protection Agency (USEPA) and TRW. The USEPA signed the AOC on September 28, 2009.

Several terms describing locations are referred to throughout this report. For the purposes of this report, the following terms are defined below:

- **OU2** is an area designated by the AOC, is located to the northeast of Oak Grove Village, and includes the landfill and the La Jolla Spring Cave Complex (Figure 1-1).
- The **Landfill** comprises a 28-acre cell, perimeter roads, and property adjacent to the landfill fence line (Figure 1-2).
- The **Site** is the area defined in the AOC as the “city of Sullivan landfill and areas where contamination has come to be located.”
- **Site Investigation Area (SI Area)** describes the area that is the focus of sampling conducted during the Phase 1 Site characterization.

1.1 Purpose and Objectives

The Phase I Site characterization was completed to meet, in part or in full, the following objectives of the remedial investigation/feasibility study (RI/FS) process:

- Define the SI Area’s physiography, geology, and hydrology.
- Determine if the Landfill is a source area of constituents of potential concern (COPCs) in groundwater.
- Better define the surface and subsurface pathways of migration.



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- Collect data to better determine the extent of migration of COPCs to better understand the nature and extent of impacted groundwater at the SI Area.
- Assess the risk to human health and the environment based on historical and current data collection efforts (if necessary).
- Evaluate appropriate remedies (if necessary).

As prescribed by the AOC, the findings of the Phase 1 Site Characterization will determine whether additional phases of work are required to meet the RI/FS objectives.

1.2 Scope of Investigation

The Phase I Site Characterization included a variety of tasks completed during a 3-year period. The major elements of the scope of work included:

- Install two bedrock borings beneath the Landfill to depths between 410 and 420 feet below ground surface (bgs).
- Perform geophysical logging of the boreholes to characterize bedrock stratigraphy and to identify fractures, voids, or other zones of potential water yield.
- Collect discrete groundwater samples to identify specific depths where COPCs may be present and to characterize variability in COPC concentrations with depth.
- Install two groundwater monitoring wells (one shallow and one deep) within each of the bedrock borings for permanent groundwater monitoring.
- Conduct quarterly sampling of the new wells and a specified set of existing groundwater monitoring wells for 1 year.
- Sample and gauge seeps and springs under varying seasonal conditions.
- Sample and gauge streamflow in Winsel Creek, a stream located east of the Landfill.

Section 3 of this report describes the implementation of these tasks.

2. Investigation Background

2.1 Landfill History

The Landfill (**Figure 2-1**) operated as a municipal and industrial waste disposal facility from 1970 to 1975. Both industrial and municipal wastes were accepted in the ravine portion of the Landfill. The Landfill was permitted by the Missouri Department of Natural Resources (MDNR) in 1974. In 1975, operations in the ravine portion of the Landfill were being phased out. Trench cells were constructed on the north end of the Landfill. In 1978, the MDNR issued a permit for an 8.5-acre area for trench-type disposal. In 1982, an additional 0.5-acre trench area was permitted by the MDNR. During trench construction, an industrial waste cell was constructed to store approximately 200 drums. The Landfill ceased accepting waste in 1983.

Six groundwater monitoring wells were installed at the Landfill in 1992. In May 1992, approximately 149 drums (55-gallon capacity) and 32 buckets (5-gallon capacity) deposited in the industrial waste cell were removed by Laidlaw Environmental Services, Inc. under the supervision of ABB-Environmental Services (ABB-ES). None of the drums were found to have leaked. ABB-ES submitted a Closure Plan Report to the MDNR in 1993 (ABB-ES, 1994). Construction of a landfill cap and associated leachate collection system began in 1994 and was completed in 1995 (ABB-ES 1996); the MDNR approved closure of the Landfill in 1996. The Landfill is currently part of a 30-year post-closure care program that involves biennial sampling of groundwater monitoring wells and landfill cap inspections.

2.2 Site Investigation Area

The study area of the Phase I Site Characterization (i.e., the SI Area) includes the Landfill and a region of public and private land considered to be potentially downgradient from the Landfill, an area extending from the Landfill east as far as the Meramec River (Figures 1-1 and 2-1). The major features of the SI Area and its vicinity include:

- The Landfill, which is a capped, grass-covered, 28-acre landfill located on top of a hill and is accessible from Emma Lane. The Landfill is fenced and is kept locked.
- The area immediately surrounding the Landfill, which includes farmland (to the north), the City of Sullivan's wastewater treatment plant (approximately 700 feet to the northeast), a small slaughterhouse (immediately to the east), and generally open or wooded land. Some private residences are located west of the Landfill on



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Emma Lane, and a trailer park is located approximately 1,500 feet north of the Landfill, beyond a farm field.

- Winsel Creek, an intermittent stream that flows in a counterclockwise arc beyond the east side of the landfill. The creek passes as close as approximately 300 feet from the landfill (to the southeast), where it is approximately 60 feet lower in elevation than the landfill crest. The creek continues to descend downstream to the north and west.
- Meramec State Park, encompassing most of the SI Area east of Winsel Creek. The parkland is mostly rugged, undeveloped forest, with steep terrain descending more than 250 feet in elevation eastward to the Meramec River. The river valley is deeply dissected by several west-to-east trending tributary valleys; Copper Hollow is the largest.
- Several caves and large springs, most located in the tributary valleys adjoining the Meramec River. The two most notable caves include the privately owned La Jolla Spring Cave Complex and Fisher Cave located within Meramec State Park.

The Landfill lies outside and to the northeast of Oak Grove Village, a small semirural community, which is adjacent to and generally northeast of the larger city of Sullivan. The Oak Grove Village municipal water wells (OGV Well #1 and #2) are located approximately 1 mile to the southwest of the Landfill.

2.3 Topography and Drainage

The terrain in the SI Area is divided between a high, gently rolling upland in the west, and a rugged, deeply dissected valley to the east (Figure 2-2). The division between these two regions is a low ridge that forms a surface-water divide between two major surface watersheds:

- The plateau in the western part of the SI Area drains northward to the Bourbeuse River, approximately 10 miles distant. Winsel Creek, a tributary to the Bourbeuse River, captures surface runoff near the Landfill, from Oak Grove Village and much of Sullivan.
- The steep-sided valleys in the eastern part of the SI Area drain eastward to the Meramec River.

It is important to note that in the SI Area, the boundaries of surface drainage basins do not correlate with groundwater drainage basins. The SI area lies in a region of Missouri that is subject to karst, the process of preferential dissolution of rock by circulating groundwater. Karst forms where groundwater progressively enlarges the existing flow paths (such as bedrock fractures), increasing the aquifer transmissivity and altering its drainage patterns by creating networks of interconnected conduits. The caves and springs found near the Meramec River are the clearest evidence of karst in the SI Area.

The high transmissivity of many karst aquifers means they can be extremely effective at transmitting water to base-level streams, often limiting the hydraulic need for higher-order surface streams such as Winsel Creek. As discussed in Section 4.3.1, the bed of Winsel Creek is more than 100 feet above the groundwater levels in the bedrock aquifer beneath it, making the stream (when flowing) both perched and losing.

Given the complex relationship of groundwater and surface water in the SI Area, water falling on the ground near the Landfill may take several different pathways. Surface water originating from the Landfill will flow to Winsel Creek, and eventually to the Bourbeuse River, if it does not infiltrate first. Water infiltrated directly, or carried in Winsel Creek but then lost from infiltration or swallows will flow as groundwater toward the Meramec River and most likely discharge at springs. In the SI Area, all groundwater is interpreted to flow to the Meramec River, the local base level.

2.4 Geologic Context

The SI Area is located in a region of the Ozark Plateau underlain by an estimated 1,000 to 1,500 feet of gently dipping sedimentary rock, dating to the Cambrian and Ordovician Periods. These strata consist chiefly of dolomite, with lesser amounts of sandstone and minor shale. The geologic setting is described in numerous previous studies (Imes and Emmett [1994], Robertson [1991], Van Dike [1996], Thompson [1991]), and from previous site-specific reports (e.g., MDNR 2007). A generalized stratigraphic column is shown on Figure 2-3. The occurrence of these strata in the SI Area is shown in map view and cross section on Figure 2-4. The principal units of interest to this investigation include (from the shallowest to deepest):

- Roubidoux Formation (Ordovician), consisting of sandstone, sandy dolomite, dolomite, chert, sandy chert, and cherty dolomite. The Roubidoux is typically the shallowest bedrock unit present throughout the upland plateau underlying Sullivan and Oak Grove Village. The unit is eroded and absent in the Meramec River valley.

- Gasconade Dolomite (Ordovician), consisting of medium to coarsely crystalline dolomite, finely crystalline dolomite, and cherty dolomite (Thompson 1991). Informally, the Gasconade Dolomite is separated into an "upper" interval that is relatively chert-free and may contain sandstone stringers, and a "lower" interval that may contain more than 50 percent chert. The Gasconade Dolomite sporadically includes a sandstone member, the Gunter Sandstone, at the base of the unit. The Gunter Sandstone occurs as a medium-grained quartzose sandstone, where present. The Gasconade Dolomite is present at its full thickness (approximately 210 feet) beneath the upland plateau, but is deeply eroded in the Meramec River valley, present only in the high bluffs but absent in the valley bottoms.
- Eminence Dolomite (Cambrian), consisting of light gray, medium to coarsely crystalline cherty dolomite with some light-colored shale partings. Bedding in the Eminence Dolomite is generally medium to massive. A major diagnostic feature of the Eminence Dolomite is the chert content, which occurs as seams, ledges, and irregular masses (Thompson 1991). The Eminence Dolomite is present throughout the entire SI Area, exposed only in the valley bottoms in the Meramec River valley.
- Potosi Dolomite (Cambrian), consisting of brown to gray, fine to medium crystalline, massive, poorly bedded dolomite with zones of quartz druse (Hayes and Knight 1961) and chertified algal forms, possibly stromatolites. Banded quartz druse is a prominent diagnostic feature of the Potosi Formation (Grohskopf and McCracken 1949). The Potosi is intact beneath the entire SI Area, with no surface exposures.

The base of the Potosi Dolomite is estimated to be approximately 800 feet bgs near the Landfill (Smith et al. 2004). Deeper sedimentary bedrock, comprising primarily dolomite, shale, and sandstone, continue below the Potosi Dolomite down to the Precambrian basement at estimated depths of 1,000 to 1,500 feet bgs.

The dominant structural trend in this region of Missouri is a gentle north to northeastward bedding dip, descending away from the St. Francois Mountains farther to the south. In the Sullivan area, the regional trend is complicated by the presence of an isolated volcanic knob that rises more than 1,200 feet from the Precambrian basement and is exposed at grade to the west of Sullivan. The younger Paleozoic sedimentary rocks were deposited upon this knob (rather than intruded by it); thus, younger bedrock is not significantly deformed. However, bedrock in the Sullivan area contains several minor normal faults that create vertical offsets in the stratigraphic

section. One such fault is shown in the plan-view inset on Figure 2-4, but was not interpreted to extend as far north as the Landfill.

Site-specific observations relating to the geology of the SI Area are presented in Section 5.

2.5 Regional Hydrogeologic Setting

The SI Area and surrounding region overlies two bedrock aquifer systems separated by a confining unit (Imes and Emmett 1994). From shallowest to deepest, these hydrostratigraphic units include:

- The Ozark Aquifer (approximately 800 feet thick in the SI Area), including the Roubidoux Formation, Gasconade Dolomite, Eminence Dolomite, and Potosi Dolomite.
- The St. Francois confining unit (180 to 330 feet thick) consists of the Derby-Doerun Dolomite and the Davis Formation.
- The St. Francois Aquifer (350 to 650 feet thick) comprises the Bonneterre Formation and the Lamotte Sandstone.

Of these hydrostratigraphic units, the Ozark Aquifer is the chief concern within the SI Area, comprising as much as 800 feet of the uppermost bedrock. The underlying St. Francois confining unit provides some hydraulic separation between the Ozark and the St. Francois Aquifers.

The Ozark Aquifer is characterized as a karst aquifer (Imes and Emmett 1994) in which the dominant groundwater pathways follow integrated networks of fractures and other void spaces that have been enlarged by the progressive dissolution of the dolomite bedrock. The dominance of conduit networks and the high transmissivity of karst aquifers distinguish them from non-karst aquifers in several ways:

- Extreme heterogeneity of flow, with the majority of flow occurring within the conduit system instead of being evenly distributed throughout the aquifer mass.
- Tortuous flow paths (in the vertical and horizontal dimensions) governed by hydraulic gradients and the geometry of conduit networks.



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- Abnormally deep water tables, often below the elevation of high-order surface streams (such as Winsel Creek, in the SI Area).
- Groundwater drainage basins formed around networks of interconnected conduit that may bear no resemblance to surface drainage patterns.

Evidence of karst in the SI Area is abundant, including sinkholes and a losing stream in the upland area, caves and springs in the Meramec River valley, and significant voids reported in wells from the Site and throughout the Oak Grove/Sullivan area.

Site-specific observations relating to the hydrogeology and groundwater flow are presented in Section 5.



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3. Previous Environmental Investigations

This section discusses previous environmental investigations performed at OU2, according to the Settlement Agreement and AOC (USEPA 2009). TRW is on record as not agreeing with all the conclusions provided in the reports summarized below.

3.1 Hydrochemical Investigation – 1990

In August 1990, the City of Sullivan entered into a hydrochemical investigation with the U.S. Geological Survey (USGS) as a result of leachate samples collected from the landfill, as well as groundwater samples collected from several area wells, including the Oak Grove Village municipal well #1, a former City of Sullivan municipal well, and the Landfill monitoring wells.

During the hydrochemical investigation, the USGS sampled three of the largest seeps from the landfill for volatile organic compounds (VOCs) and metals. Results indicated the presence of tetrachloroethene (PCE) at concentrations ranging from 8 to 19 micrograms per liter (µg/L) and trichloroethene (TCE) at concentrations ranging from 150 to 370 µg/L. TCE degradation products, Freons, and other COPCs were also detected.

In September 1990, the MDNR issued a citation to the City of Sullivan based upon available sampling results and the annual solid waste disposal facility inspections. In response to the MDNR citation, the City of Sullivan constructed berms around the cited seeps to help prevent off-site migration of leachate.

In October 1990, the City of Sullivan issued a Notice of Liability letter to the Ramsey Corporation (owned by TRW) and Meramec Industries as primary contributors of hazardous waste to the Landfill.

After the City of Sullivan's Notice of Liability letters were mailed, a potentially responsible party (PRP) group was formed to address contamination from the Landfill. This group comprised TRW, the City of Sullivan, and the Meramec Group.

3.2 Sullivan Area Tracer Tests

In 1991 and 1994, the MDNR's Division of Geology and Land Survey performed five dye tracer tests in the Sullivan area. One of these tracers was injected into a sinkhole at the closed Landfill. The tracer was identified in La Jolla Spring 179 days after the

tracer was released into the sinkhole. The conclusions of the tracer tests were disputed by TRW (TRW 2005) and Ewers (Ewers 1994). Ewers suggested that, based on the conservative quantities of dye and sensitive analytical techniques used for the test, it would be difficult to conclude that tracer put in the sinkhole at the Landfill is the same as that detected in La Jolla Springs.

3.3 Landfill Drum Removal – 1992

In May 1992, prior to landfill closure, the PRP Group removed approximately 149 drums (55-gallon capacity) and 32 buckets (5-gallon capacity) that had been deposited in the industrial waste cell. The PRP Group installed six monitoring wells at the Landfill to determine if contaminants were migrating from the SI Area. The shallowest monitoring well (MW-105) was drilled to 177 feet bgs; the deepest monitoring well (MW-102A) was drilled to an approximate depth of 275 feet bgs.

3.4 Groundwater Sampling

Several COPCs, including TCE and Freon 11, have been detected in all six of the Landfill monitoring wells (MW-101, MW-102A, MW-102B, MW-103, MW-104, and MW-105) since their installation in 1992. TCE concentrations have been detected at concentrations ranging from 0.5 to 6.6 µg/L, and Freon 11 has been detected at concentrations ranging from 1.4 to 197 µg/L.

The Voss well (354 feet deep), a private well located adjacent to the Landfill, has had TCE detections during sampling events since 2000 at levels ranging from 1.6 to 5.4 µg/L, and Freon 11 at levels ranging from 15 to 120 µg/L.

3.5 Missouri Department of Natural Resources Remedial Investigations

In 2005, the MDNR drilled three deep monitoring wells as part of the Phase II remedial investigation (RI) for the Oak Grove Village Well Superfund Site. One of these wells was located 250 feet south of the Landfill. The well was drilled 501 feet bgs, for a total depth of 505 feet. As part of the Post-Phase II investigation, the borehole at the Landfill was completed as a dual-elevation well. The open annulus of the well (from 104 to 280 feet bgs) is referred to as MW-1A and the deeper open-hole section (below the riser from 349 to 505 feet bgs) is referred to as MW-1.

In April 2006, the MDNR collected samples from MW-1A and MW-1. Both field analysis and laboratory results showed small concentrations of TCE and other COPCs in

MW-1A. No concentrations above the laboratory reporting limits were detected in the deeper MW-1.

During Phases I and II of the RI, the MDNR conducted periodic sampling of private wells located near the Landfill. Several COPCs, including TCE and Freon 11, were detected in private wells located west of the closed Landfill. Two of these private wells had TCE detections above the maximum contaminant level (MCL) of 5 µg/L and were provided whole-house filtration systems by the USEPA in 2003.

In 2005, TRW provided comments to the MDNR on the Phase II RI/FS and the Proposed Plan for the Oak Grove Village Well Site (TRW 2005). Additionally, in 2007, TRW provided comments to the MDNR on the Post-Phase II RI/FS and the Proposed Plan for Interim Action at the Oak Grove Village Well Site, Operable Unit 1 (TRW 2007). These comments highlighted data gaps that prevented the delineation of the nature and extent of COPCs near the Landfill, and suggested that the conclusion that the Landfill is a source of COPCs to groundwater cannot be conclusively determined with the available data.

3.6 La Jolla Spring Cave Complex Sampling

From October 2002 to January 2005, the USEPA and the MDNR conducted six sampling events (air and water) in the La Jolla Spring Cave Complex. Sample results detected the presence of Freon 12; Freon 11; 1,1-dichloroethene (1,1-DCE); methylene chloride; cis-1,2-dichloroethene; TCE; toluene; m,p-xylene; 1,4-dichlorobenzene; PCE; ethanol; 2-propanol; and acetone. In the cave air, Freon 11 was detected at concentrations as high as 270 micrograms per cubic meter (µg/m³) and TCE was detected as high as 1,700 µg/m³. Water samples within the La Jolla Spring Cave Complex detected Freon 11 at concentrations as high as 2.13 µg/L and TCE at concentrations as high as 12.6 µg/L. For comparison, analytical results from sampling performed in the La Jolla Spring Cave Complex in 2010 indicated TCE concentrations ranging from not detected to 5.1 µg/L.

3.7 MDNR Landfill Sampling – 2005

In 2005, the MDNR conducted a multimedia investigation of the Landfill, consisting of gas sampling of the passive landfill vents, geophysical logging using a membrane interface probe, and collection of discrete soil, leachate, and subsurface gas samples using direct-push methods (MDNR 2006). The MDNR concluded that the Landfill does produce methane when sufficient moisture is present to support methanogenesis.



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Additionally, the sampling performed by the MDNR indicated the presence of VOCs (including TCE, vinyl chloride, cis-1,2-DCE, PCE, and methylene chloride) and Freon compounds (including CFC-11 [Freon 11], CFC-12 [Freon 12], CFC-113 [Freon 113], and CFC-114 [Freon 114]) in the Landfill leachate.

4. Site Investigation

4.1 Overview

The Phase 1 Site Characterization was composed of tasks designed to simultaneously:

- Evaluate whether the Landfill was a source of COPCs to groundwater.
- Sample surface water and springs in areas where, if an impact from the Landfill existed, COPCs could plausibly be transported via groundwater.

Note that the spring and surface-water sampling points included in the investigation are not uniquely associated with the Landfill. The catchment of each sample point is assumed to be significantly larger than the Landfill and to potentially encompass other, unrelated sources of COPCs.

4.2 Site Investigation Area Reconnaissance

Prior to the scheduled start of drilling and sampling activities on April 6, 7, and 8, 2010, representatives of ARCADIS, the USEPA, the USGS, and the MNDR completed a reconnaissance of the SI Area. The reconnaissance was completed to locate proposed drilling and sampling locations, identify potential accessibility issues, and reach agreement on selected sampling locations. The areas visited include:

- *Landfill.* The proposed drilling locations for new wells MW-107 and MW-108 were located and staked (Figure 4-1).
- *Winsel Creek.* The reconnaissance team evaluated an approximately 1-mile-long reach of Winsel Creek, starting southwest of the Landfill and extending downstream, northeast of the wastewater treatment plant settling ponds. No springs or seeps were identified in this reach. Four stream locations suitable for sampling and gauging were identified (Figure 4-2). The area between the Landfill and Winsel Creek was also reconnoitered for possible seeps; however, none were found.
- *Copper Hollow.* The reconnaissance team hiked to Copper Hollow (an area accessible only by footpaths in Meramec State Park) to locate springs for sampling. Tin Cup Spring and Copper Hollow Spring were located. No other significant springs were identified along Copper Hollow. Cane Hollow, a small

valley immediately south of Copper Hollow, was also explored; however, no additional springs were identified.

- *La Jolla Spring/Meramec Cavern.* The reconnaissance team was granted access to Meramec Caverns and was escorted by cavern personnel through the developed portions of the cave. Two sampling and gauging locations were identified located on the primary cave stream (SW-LJ-01 and SW-LJ-03), and a third located a small tributary stream entering from the north (SWLJ-02). Locations are shown on Figure 4-3.
- *Fisher Cave.* The reconnaissance team was granted access to Fisher Cave and was escorted into the cave by a Missouri state park ranger. Three sampling and gauging locations were identified (Figure 4-4). Two upstream locations (SW-FC-02 and SW-FC-03) were located on the two primary tributaries streams that join inside Fisher Cave. A third sample location (SW-FC-01) was located farther downstream in the primary cave stream, just inside the cave entrance.

The sampling points were sketched in a field log and, except for cave sample points, were located using a handheld global positioning system. Water quality data including temperature, pH, and specific conductance were collected with field instrumentation, following the procedures described in the Field Sampling Plan (FSP; included as Attachment 3 to the RI/FS Work Plan [ARCADIS, 2010]).

4.3 Surface-Water and Spring Characterization

Sampling was performed on Winsel Creek and in selected springs and cave streams within the SI Area to assess the presence of COPCs at these locations (Figure 4-2). This task consisted of two sampling events:

- *May 25, 26, and 27, 2010.* Sampling and gauging of Winsel Creek, and targeted SI Area springs and cave streams. This sampling event was scheduled to occur during wet season conditions.
- *October 13 and 14, 2010.* Sampling and gauging of targeted SI Area springs and cave streams. This sampling event was scheduled to occur during dry season conditions and did not (as planned) include a repeat sampling event in Winsel Creek. The creek was dry at the time of the sampling event.

Sections 4.3.1 and 4.3.2 describe the scope and methodology of the sampling that was conducted.

4.3.1 Winsel Creek Sampling and Gauging

Winsel Creek is an intermittent stream located south, east, and north of the Landfill, as shown on Figure 4-2. The stream bed of Winsel Creek is at a lower elevation than the Landfill; therefore, the potential exists for surface-water runoff from the Landfill to reach the creek. During the site reconnaissance, ARCADIS identified four sampling locations in Winsel Creek:

- SW-WC-01, selected at a location downstream of the Sullivan Treatment Plant outfall. This sampling location was chosen to be sufficiently downstream of the outfall that effluent and stream flow would be well-mixed.
- SW-WC-02 and SW-WC-03, selected as representative locations between the landfill and the creek.
- SW-WC-04, selected at a location upstream of the landfill.

Leachate seeps, observed historically on the periphery of the Landfill, are also considered to be potential exposure pathways. During the Site reconnaissance, the area between the Landfill and Winsel Creek was reconnoitered for possible seeps; however, none were found. If ARCADIS had identified seeps, they would have been incorporated in the sampling program. Note that seeps were not observed by field personnel at any point during the Phase 1 field program despite periods of prolonged wet weather. The current absence of seeps is consistent with a significant long-term decline in leachate production observed in the Landfills leachate collection system since its implementation (based on conversations with Sullivan Public Work Department staff).

In accordance with the work plan (ARCADIS 2010), the sample points identified on Winsel Creek were sampled once for the full list of COPCs, as presented in Table 4-1. The sampling event occurred on May 25, 2010, concurrent with the first round of spring and La Jolla Spring Cave Complex sampling.

Grab samples were collected at each point, following one of the recommended surface-water sampling procedures contained in the FSP. Samples were pumped directly to the sample containers using a portable peristaltic pump with dedicated

tubing. The tubing inlet was placed beneath the water surface in the center of the flowing section of the creek at each sample location. Field parameters of temperature, conductivity, and pH were recorded using a field meter deployed directly into the stream.

At each of the four sampling locations, the flow in Winsel Creek was gauged using the velocity-area method, using a flowmeter to measure the average current velocity at regular intervals across a perpendicular transect of the stream. The meter used, a Marsh-McBirney Flo-Mate Model 2000 portable electromagnetic flowmeter, was approved by USGS field personnel. Because stream depths were in all cases less than 1 foot, the standard assumption was that velocity measured at 0.6 times the measured depth approximated the average velocity in the vertical profile.

At each sampling location, USGS representatives acting on behalf of the USEPA collected duplicate analytical samples, and performed independent flow gauging.

4.3.2 Spring and Cave Stream Sampling and Gauging

The SI Area reconnaissance, described above, identified eight spring and cave stream sampling locations between the Landfill and Meramec River based on accessibility and geographic distribution. The locations included two springs, three cave stream locations inside the La Jolla Spring Cave Complex, and three cave stream locations inside Fisher Cave. Each location is shown on Figure 4-2. The approach to sampling and gauging each is described below.

4.3.2.1 Spring Sample Locations

- SW-CH1 (Copper Hollow Spring), a large spring emerging from a bedrock bluff near the entrance to Copper Hollow Spring Cave on the south flank of Copper Hollow, approximately 1,700 feet upstream of its junction with the Meramec River. The spring emerges as a well-formed, 5- to 6-foot-wide channel that could be gauged by the velocity-area method using a standard flow meter.
- SW-TC1 (Tin Cup Spring), a small spring discharging from a bedrock orifice in the south bank of Copper Hollow Creek approximately 2,200 feet upstream of Copper Hollow Spring. The spring emerges less than 1 foot above the primary stream channel and cascades down a poorly formed rock and gravel chute. To measure flow, a flexible container was used to capture the flow for a timed period (a rubber

hip wader was the most effective container available). The water was then transferred to a graduated bucket to quantify the volume of discharge.

4.3.2.2 La Jolla Spring Cave Complex Sampling Locations (Figure 4-3)

- SW-LJ01, located inside the La Jolla Spring Cave Complex on the primary cave stream, approximately 900 feet from the main cave entrance. The location is at the most downstream footbridge crossing the cave stream in the developed portion of the cave. At this location, the stream is approximately 16 feet wide and averages approximately 2.2 feet deep. The footbridge provides a safe transect location for collecting samples and gauging flow without wading into the cave stream. Flow was measured by the velocity-area method using a flowmeter lowered over the upstream railing of the footbridge.
- SW-LJ02, located inside the La Jolla Springs Cave Complex approximately 1,100 feet from the main cave entrance. The location is on a minor tributary to the main cave stream that enters from the north, down a section of the cave known as the Atomic Shelter Passage. During the May 2010 event, flow in the tributary was insufficient to gauge reliably; however, samples could be collected. During the October 2010 event, the tributary was dry and samples could not be collected.
- SW-LJ03, located inside the La Jolla Springs Cave Complex on the primary cave stream approximately 1,700 feet from the main cave entrance. The location is at the upstream terminus of the developed section of the cave. Due to safety concerns, it was agreed with the USEPA and the USGS that samples would be collected at SW-LJ03, but that no flow measurement was required. (Note that the USGS completed flow measurements at both SW-LJ01 and SW-LJ03 during each sampling event.)

4.3.2.3 Fisher Cave Sampling Locations (Figure 4-4)

- SW-FC01, located in Fisher Cave's primary cave stream immediately inside the cave entrance. The cave stream forms from two principal tributaries (sampled individually at SW-FC02 and SW-FC03) that combine inside the accessible portion of the cave and flow out the mouth of the cave onto the floodplain adjacent to the Meramec River. Flow gauging was completed by velocity-area method using a flow meter.

- SW-FC-02, located on the southern tributary to the primary cave stream in Fisher Cave. The location is approximately 1,500 feet from the cave entrance on a section of the cave known as the Weeping Willow Passage. Flow gauging was completed by velocity-area method using a flow meter.
- SW-FC-03, located on the northern tributary to the primary cave stream in Fisher Cave. The location is approximately 1,400 feet from the cave entrance on a section of the cave known as the Grand Canyon. Flow gauging was completed by velocity-area method using a flow meter.

At each location, samples were collected using a peristaltic pump with the tubing inlet deployed in midstream and at the center of the water column. For springs, the intake was placed as near to the spring orifice as feasible. Where the centerline of the stream could not be easily reached from shore (as in the La Jolla Cave Complex samples), the tubing was affixed to a pole and extended to the target depth and position. Water samples collected from the La Jolla Spring Cave Complex were analyzed for the same list of COPCs required for groundwater monitoring, as presented in Table 4-2. Samples collected from the other springs and cave stream locations were analyzed for TCL VOCs only. Field parameters of temperature, conductivity, and pH were recorded using a field meter deployed directly into the stream.

4.4 Groundwater Characterization

The groundwater characterization tasks for the Phase 1 Site Characterization were focused on the Landfill. In general, the tasks comprised:

- Drilling and testing two deep bedrock boreholes
- Installing and developing a pair of nested monitoring wells in each borehole
- Collecting four quarters of groundwater samples from the new and existing Landfill monitoring wells

The scope and methodology for these tasks are discussed below.

4.4.1 Boring Locations and Site Preparation

The two proposed drilling locations were identified and marked during the preliminary reconnaissance on April 6, 7, and 8, 2010 (Figure 4-1). These locations were identified

by the USEPA as the areas of the landfill that would comprise the highest potential for detecting elevated concentrations of VOCs in groundwater beneath the Landfill, based on known hydrologic conditions (a sinkhole) and past visual observations (observed seeps). The two locations are described below:

- MW-107, located in the northwest corner of the Landfill. This location was recommended by the USEPA based on its proximity to a former seep, previously observed on the northwestern edge of the Landfill. (Note that the seep was not observed to be active at any point during the Site Characterization field program.) The location is also on the edge of the landfill most proximal to a trailer park where VOCs have been detected in groundwater.
- MW-108, located in the approximate center of the Landfill near a sinkhole that has been noted historically.

The selected locations were on open, generally flat ground on crest of the landfill, accessible by traversing the grass-covered landfill cap. A gravel ramp was constructed at the entrance to the landfill to permit rig and support truck access. Under dry conditions, the landfill was judged to adequately support the drilling rigs and support vehicles. Under persistently wet or thawing conditions, it was necessary to restrict vehicle movement to limit damage to the landfill cap.

Before drilling began, ARCADIS completed the following utility avoidance measures:

- Contacted the Missouri One-Call System.
- Obtained and reviewed site plans, including landfill utilities and municipal sewer lines.
- Consulted a knowledgeable person representing the City of Sullivan to verify that no utilities were present near the drilling locations.

4.4.2 Borehole Drilling and Testing

On October 14, 2010, drilling commenced for the boreholes for new monitoring wells MW-107 and MW-108 and continued with several interruptions until reaching the final depths of the boreholes on September 1, 2011. As specified in the FSP, drilling consisted of a series of steps, including varied drilling methods, collection of samples for screening level analysis, and geophysical logging. Due to the step-wise drilling plan,



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the two boreholes were advanced concurrently rather than in series. Where appropriate, the drill rig moved back and forth between the two locations to expedite the drilling process. The drilling and testing processes are described below.

4.4.2.1 Overburden Drilling

The initial stage of drilling advanced each borehole through the landfill materials using an auger rig. At each borehole, the landfill waste consisted primarily of mixed municipal trash with some concrete rubble. As specified in the FSP, no split-spoon samples were collected and field identification was based on auger cuttings. Air monitoring was completed using a photo ionization detector and 4-gas meter.

The base of landfill materials at each boring was found at approximately 16 feet bgs, where the top of the weathered Roubidoux Formation sandstone was encountered. Because of difficulties with hole stability, temporary 24- and 20-inch conductor casing were used to keep the borehole from caving until the next stage of drilling was completed.

Boreholes were checked periodically for potential leachate. No liquid was observed.

4.4.2.2 Installation of Surface Casing

With the landfill materials supported by temporary conductor casing, drilling continued using a cable-tool rig. At each borehole, a 19.5-inch-diameter cable-tool bit was advanced approximately 10 feet into the bedrock surface. The cable-tool drilling method required introduction of potable water as a drilling fluid. Screening-level samples to detect the potential presence of COPCs were collected as direct grab samples of drilling slurry (the mixture of drilling water and cuttings). The samples indicated in the table below were submitted for analysis of VOCs. USGS representatives collected split samples.

Boring Location	Sample Depth (feet bgs)	Sample Date	Sample Type
MW-107	16	4/26/2011	Grab sample of drilling slurry
MW-108	26	11/12/2010	Grab sample of drilling slurry

Drilling continued to a depth of 27 feet bgs at MW-107 and 26 feet bgs at MW-108. Sixteen-inch steel casing was installed and grouted in place in each borehole using the methods described in the FSP.

4.4.2.3 Vadose Zone Rock Drilling

As specified in the FSP, each borehole was advanced through the upper section of rock and permanently cased off to approximately the same elevation as the casing in existing well MW-1 (i.e., 755 feet above mean sea level [amsl]). This measure was taken to isolate the vadose portion of bedrock, maintaining hole stability for deeper drilling and limiting potential downhole leachate migration, if encountered.

Drilling in the vadose rock zone was performed with a cable tool with a 14-inch-diameter bit, using potable water as a drilling fluid. Grab samples of drilling slurry were collected for VOC analysis from the depths indicated in the table below.

Boring Location	Sample Depth (feet bgs)	Sample Date	Sample Type
MW-107	97	5/16/2011	Grab sample of drilling slurry
MW-107	185	6/17/2011	Grab sample of drilling slurry
MW-108	80	11/19/2010	Grab sample of drilling slurry
MW-108	141	12/1/2010	Grab sample of drilling slurry
MW-108	185	12/15/2010	Grab sample of drilling slurry

Based on the land-surface elevation at the boreholes, and the historical range of water-levels in the shallow wells at the Landfill, a target depth of 185 feet bgs was selected for installation of the 10-inch-diameter steel inner surface casings. This depth was judged to be near, but slightly above the average seasonal maximum water table. Drilling through the vadose zone progressed slowly at each borehole due to the presence of clay-filled and partially open solution cavities. No perched groundwater or leachate was present in any of the voids encountered within this interval of drilling.

Drilling continued to a depth of 186 feet bgs at both boreholes. Ten-inch steel casing was installed and grouted in place in each borehole. Due to the presence of solution cavities, the FSP-prescribed method of pressure-grouting could not be completed. As planned, grout introduced through the bottom of the casing would have diverted into the cavities rather than fill the borehole annulus. Instead, casings were grouted in incremental lifts using a tremie pipe outside of the casing. The USEPA was notified of this change by electronic mail (December 21, 2010, J. Shonfelt to T. Howell).



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4.4.2.4 Drilling through Saturated Bedrock

The final drilling stage was planned to advance each borehole so that it penetrated a transmissive zone observed in the upper Eminence Dolomite at existing well MW-1. The AOC stipulated a target termination elevation of 525 feet amsl, amounting to a depth of at least 395 feet bgs. The FSP specified advancing this stage of each boring by 10-inch-diameter air-rotary drilling. However, at both wells the first 50 feet of this interval (i.e., 185 to 235 feet bgs) was drilled using cable-tool methods, before transitioning to air-rotary methods for drilling to the final target depth. The cable-tool rig was used for the shallower section of each borehole due to soft landfill conditions, which prohibited making the required switch of drill rigs when, in both instances, drilling was ready to proceed. Air-rotary drilling was used to complete each borehole below 235 feet bgs after the landfill had dried sufficiently to mobilize the air-rotary rig without damaging the cap.

As specified in the FSP, screening-level borehole groundwater samples were collected for analysis of TCL VOCs at several depths as drilling progressed. The table below summarizes the samples collected.

Boring Location	Intake Depth (feet bgs)	Open Interval (feet bgs)	Sample Date	Sample Type
MW-107	220	186-235	7/11/2011	Purged 643 gallons and collected samples
MW-107	280	186-295	8/17/2011	Purged 1,212 gallons and collected samples
MW-107	340	186-355	8/22/2011	Purged 1,800 gallons and collected samples
MW-108	195	186-195	1/5/11	Direct grab in open borehole
MW-108	210	186-210	1/6/11	Direct grab in open borehole
MW-108	220	186-235	3/16/2011	Purged 458 gallons and collected samples
MW-108	262	186-295	8/29/2011	Purged 1,288 gallons and collected samples
MW-108	313	186-355	8/31/2011	Purged 1,875 gallons and collected samples

The FSP prescribed the use of inflatable packers to isolate each sample interval before collection. However, significant difficulties with borehole cave-in from several large voids made the use of packers too risky to attempt (e.g., if cave-in occurred while

packers were deployed, the packer string could be permanently stuck, leaving no way of completing the borehole).

Therefore, the samples were collected without packers from open borehole intervals that increased in length with each successive stage of drilling. To maximize the likelihood that each sample was representative of its intended test interval, the pump used for the purged sample was placed approximately 15 feet from the bottom of the open borehole for each test. Each interval was purged of a total of 3 volumes of the full length of the open borehole prior to sampling. The USEPA agreed to this alternative sampling approach after reviewing the analytical data from open borehole samples collected during drilling (ARCADIS 2011a and 2011b).

The deepest interval of each borehole (approximately 355 to 410 feet) was not tested using the open-hole 3-volume purge method. Because the FSP required installation of a permanent well in this zone (which includes the target transmissive zone), collecting a preliminary screening-level sample was agreed to be unnecessary.

The borehole of MW-107 reached its total drilled depth of 410 feet bgs on August 23, 2011. The borehole of MW-108 was terminated at 420 feet bgs on September 1, 2011.

4.4.3 Geophysical Logging

After completion of drilling, geophysical logging was completed for each borehole on September 27, 28, and 29, and October 6, 2011. The logging suite included the following:

- Downhole video camera survey with side-looking capability
- Borehole fluid temperature and fluid resistivity log
- Natural gamma log
- Three-arm caliper log
- Heat pulse flow meter log

The downhole camera survey was recorded for each well on the first day of logging, with separate sweeps for side- and down-view camera angles. Logs of fluid temperature and resistivity were recorded the following day after allowing the boreholes to stand undisturbed overnight. Natural gamma and caliper logs were then completed.



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Vertical flow meter logging was completed using a heat-pulse flow meter, taking ambient flow readings at approximately 15 to 20 stations in each borehole. In an initial pass, the flow meter was fitted with rubber baffles sized to the 10-inch borehole diameter. In MW-107, ambient vertical flow was measurable with this setup at all targeted depths. At MW-108, vertical flow rates measured shallower than approximately 350 feet bgs exceeded the operational range of the flow meter, and could be detected only by repeating the measurements with an undersized baffle that allowed some flow to bypass the meter. Values recorded while using an undersized baffle are semiquantitative, but were judged by the field team (which included the USGS) to be satisfactory for indicating flow direction and relative flow rate. Based on the degree of ambient flow measured in each borehole, it was agreed that dynamic flow logging (i.e., flow logging while pumping from the top of the water column) was unlikely to provide significant additional information, and was not attempted.

Geophysical data are presented on logs in Appendix A.

4.4.4 Open Borehole Point Sampling

On October 5, 2011, after reviewing the geophysical logging data, six open-hole point samples were collected as a final step to evaluate the vertical distribution of COPCs before selection of well-screen intervals. Target sample depths were selected above, within, and below the apparent transmissive zone (a zone identified via the geophysical logging at depths of approximately 350 to 380 feet bgs in both boreholes). The table below summarizes the samples collected.

Boring Location	Intake Depth (feet bgs)	Open Interval (feet bgs)	Sample Date	Sample Type
MW-107	340	186-410	10/5/2011	Point-sampler direct grab
MW-107	360	186-410	10/5/2011	Point-sampler direct grab
MW-107	390	186-410	10/5/2011	Point-sampler direct grab
MW-108	340	186-420	10/5/2011	Point-sampler direct grab
MW-108	370	186-420	10/5/2011	Point-sampler direct grab
MW-108	390	186-420	10/5/2011	Point-sampler direct grab

All samples were collected using a stainless steel, piston-operated, point sampling device lowered to the target depths in the water column using a geophysical logging winch and line. The equipment was provided and operated by the USGS. Samples were collected for analysis of TCL VOCs.



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The Sampling and Analysis Plan specified that, following geophysical logging, groundwater samples would be collected using inflatable packers. As noted previously, the use of packers was judged to be extremely risky given the cavernous nature of the borehole, and the possibility that collapsing material would trap the packer assembly causing forfeit of the borehole. The collection of point grab samples was agreed to be an adequate alternative sampling approach.

4.4.5 Well Construction

After reviewing the drilling notes, geophysical logging results, and screening-level analytical sample results, two screened intervals were chosen for each borehole. Screened interval selections and the rationale for each selection are summarized in the table below.

Well ID	Selected Screen Interval	Zone Monitored	Rationale
MW-107S	200 to 220 feet bgs	Water Table Zone Gasconade Dolomite	Screens first significant zone of water-bearing fractures and solution porosity below water table.
MW-107D	355 to 375 feet bgs	Transmissive Zone Eminence Dolomite	Screens zone of most significant solution porosity in interval of vertical flow convergence.
MW-108S	192 to 212 feet bgs	Water Table Zone Gasconade Dolomite	Screens first significant zone of water-bearing fractures and solution porosity below water table.
MW-108D	363 to 383 feet bgs	Transmissive Zone Eminence Dolomite	Screens zone of most significant solution porosity in interval of vertical flow convergence.

Well construction details were discussed and agreed upon during an October 19, 2011 conference call, which included representatives of the USEPA, the MDNR, the USGS, TRW, and ARCADIS.

Construction of the four monitoring wells was completed from October 31 to December 21, 2011. As specified in the work plan (ARCADIS 2010), care was used to ensure emplacement of appropriate grout seals and to minimize the chance of grout infiltrating to the screened intervals. Grout was emplaced in lifts of no greater than 10 feet and was typically allowed 24 hours to cure before another lift was added. Due

to the cavernous porosity, significantly more grout and sand were needed to construct the wells than would ordinarily be required based on the borehole depth and diameter.

Well construction logs are presented in Appendix A. Construction details are summarized in Table 4-2. Construction was completed as prescribed by the FSP, with the following exceptions:

- The screened interval of each well is 20 feet long, which is a deviation from the 10-foot lengths prescribed by the work plan (ARCADIS 2010). Based on the uniformity of low-level detections and the large vertical extent of the targeted fracture zones and voids, it was agreed that 20-foot screens were more appropriate to achieve the monitoring goals. The extent of the cavernous zones also made isolating anything less than a 20-foot interval challenging because the installation of well seals requires an interval of borehole without voids.
- Wells were constructed of 2.5-inch Schedule 80 polyvinyl chloride in lieu of the planned 2-inch-diameter materials. This change was made to better accommodate downhole sampling equipment.
- The well screen of MW-108S was installed with a pre-packed filter pack due to the cavernous nature of the borehole in its interval. The FSP identified pre-packed well screens as an acceptable option, if borehole conditions were not favorable for installation of a filter pack.

4.4.6 Well Development

Well development was conducted on January 31 and February 3, 2012, following the procedures specified in the FSP. Each well was mechanically surged to remove fines from the sand pack, and then purged with a submersible pump. Greater than 5 volumes of the well screen, riser, and filter pack were purged from each well, while monitoring field parameters for stability.

4.4.7 Investigation-Derived Waste Management

ARCADIS and the drilling subcontractor managed investigation-derived waste (IDW) as indicated in the FSP. In general, all solid and liquid IDW (including drill cuttings, drilling fluids, and purged groundwater) were containerized for appropriate treatment and disposal. Due to the volumes of IDW that were generated, roll-off boxes and frac tanks were staged on site for waste containerization. At the completion of each drilling

phase, composite waste characterization samples were collected to determine the appropriate disposal method for each waste stream. All waste characterization analyses showed the IDW to be nonhazardous. All clear water IDW was disposed of at the City of Sullivan publicly owned treatment works, after obtaining approval based on water clarity and laboratory results. Soil and rock cuttings, and unsettled drilling fluids were transported off site for disposal at a Subtitle D landfill permitted for special industrial waste. Appendix B contains the IDW documentation pertaining to the drilling activities performed during the Site Characterization.

4.4.8 Groundwater Monitoring

In the year following the installation and development of the new monitoring wells, four quarterly groundwater monitoring events were completed:

- March 4 to 13, 2012
- June 18 to 22, 2012
- September 10 to 13, 2012
- December 10 to 14, 2012

Each event included a total of 13 wells, comprising all existing Landfill wells, the Voss private water well, and USGS monitoring wells MW-1 and MW-1A. Sampling was completed as described in the FSP. The major elements of the monitoring plan included:

- At the start of each event, the water level in each well was gauged with an electronic water-level meter.
- At each well, a submersible pump was deployed within the screened interval and was used to purge the well at a gentle rate, adjusted to minimize drawdown.
- Purge water was monitored using a field water-quality meter equipped with a flow-through cell. The parameters of pH, specific conductance, dissolved oxygen, oxidation-reduction potential, turbidity, and temperature were monitored for stability.
- After stabilization, samples were collected for the list of analytes detailed in Table 4-2.



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- Samples collected from the Voss private water well were collected using the dedicated downhole pump by filling the bottles directly from a spigot.

Additional quality assurance/quality control samples were collected at the frequency specified in the Quality Assurance Project Plan (QAPP; included at Attachment 4 to the RI/FS Work Plan [ARCADIS, 2010]). Samples were shipped under chain of custody protocols for laboratory analysis by TestAmerica, located in Canton, Ohio.

5. Investigation Findings

5.1 Quality Assurance/Quality Control

5.1.1 Data Usability Evaluation

All environmental samples were analyzed by TestAmerica, which in turn submitted analytical reports to ARCADIS. ARCADIS evaluated all laboratory analytical data from samples collected during the Site Characterization in accordance with the QAPP (Attachment 4 of the work plan [ARCADIS 2010]). The complete laboratory report packages from TestAmerica are provided on readable compact disks in Adobe Acrobat file format (Appendix E). The ARCADIS data validation reports for the Site Characterization activities and groundwater sampling events are included in Appendix D.

5.1.2 Quality Assurance/Data Validation Summary

Data validation is the procedure of reviewing data against a known set of criteria to verify data validity prior to its use. Data validation procedures have been developed by the USEPA to standardize the validation process for analytical results for both water- and soil-quality investigations, and are documented in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA 1994a) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (Functional Guidelines; USEPA 1994b). The Functional Guidelines (USEPA 1994a) are intended to be used as a guide for evaluation of data generated under statements of work for organic and inorganic analyses associated with the USEPA Contract Laboratory Program (CLP). The Functional Guidelines (USEPA 1994a) also provide general data validation guidelines that can be applied to data generated using non-CLP analytical methods.

5.2 Surface-Water and Spring Characterization Results

5.2.1 Results of Winsel Creek Evaluation

The evaluation of Winsel Creek was completed on May 25, 2010. The principal tasks included gauging flow, measuring surface-water field parameters, and collecting surface-water samples for laboratory analysis. Gauging and field parameter results are summarized in Table 5-1. Analytical results are summarized in Tables 5-2 and 5-3. The

results of key constituents are presented on Figure 5-1. The principal findings include the following:

- Flow in the stream averaged approximately 2.5 cubic feet per second (cfs) on the day of sampling. The flow rate was greatest at the downstream location (SW-WC1), and incrementally less at each location farther upstream. The variation in measured flow is primarily attributed to changing conditions in the creek during the period of monitoring. On the day of sampling, the creek was in a period of steady recession following a rain event the previous day. Because it was necessary to conduct sampling in the upstream direction, the downstream sample was collected first. At each subsequent station, more time had elapsed and the overall streamflow had decreased further. The decline in flow is demonstrated by morning and afternoon measurements completed by the USGS at a stream crossing downstream of SW-WC2 (see notes in Table 5-1). Note also that the downstream location (SW-WC1) is downstream of the wastewater treatment plant discharge, and therefore receives a contribution of flow from the plant.
- Field parameter data are consistent with surface water derived chiefly from runoff. The parameter values (pH, temperature, and specific conductance) for the three upstream sample locations (SW-WC2, SW-WC3, and SW-WC4) are similar, suggesting that no significant inputs occur between the sample locations. The downstream location (SW-WC1) shows a slightly higher specific conductance and lower pH that is likely attributable to the treatment plant effluent.
- No VOCs were detected in the Winsel Creek surface-water samples.
- Detections of metals were within the expected range for natural waters, with no values exceeding MCLs.
- Detections of ionic compounds were within the expected range for natural waters. Concentrations of compounds associated with wastewater (e.g., sulfate, phosphorous) were marginally higher in the sample collected downstream of the wastewater treatment plant discharge (SW-WC01).

No springs or seeps were identified within the surveyed reach of Winsel Creek, either during the sampling event or during the reconnaissance completed in April 2010. No tributary branches intersected the creek between the upstream and downstream locations, except for the discharge from the City of Sullivan wastewater treatment plant (Figure 2-1).

In accordance with the Sampling and Analysis Plan, Winsel Creek was sampled only once. It is notable that the creek was not flowing during the October 2010 sampling event of springs and cave streams, consistent with its nature as a losing, intermittent stream.

5.2.2 Results of Spring and Cave Stream Evaluation

Monitoring of selected springs and cave streams in the SI Area was completed twice, in May and October 2010. During each event, the principal tasks were to gauge flow, measure water field parameters, and collect water samples for laboratory analysis. Gauging and field parameter results are summarized in Table 5-1. Analytical results are summarized in Tables 5-2 and 5-3. The results of key constituents are presented on Figure 5-1. The principal findings are discussed below.

5.2.2.1 Flow Gauging Results

- At all locations, the flow was higher during the May event than during the October event. For example, flow in the La Jolla Spring Cave stream had declined approximately 40% between the two events. All locations sampled during the May event were still flowing sufficiently to be sampled during the October event, except SW-LJ-02 (Figure 5-2), which is a tributary to the primary cave stream in Meramec Caverns and was found to be dry.
- The primary cave stream in Meramec Caverns (i.e., SW-LJ01 and SW-LJ03) was the largest discharge feature in the SI Area, excluding the Meramec River. The cave stream was gauged at 9.3 cfs in May and 5.8 cfs in October. Copper Hollow Spring was the next largest feature, discharging approximately 2.5 cfs in May and 0.35 cfs in October.
- The cave streams in Fisher Cave (with a maximum gauged value of 0.24 cfs) are relatively minor discharge features compared to La Jolla and Copper Hollow Springs. It is notable that in both May and October, the sum of flows of the two tributaries (SW-FC2 and SW-FC3) was greater than flow measured in the combined cave stream where it discharges from the cave mouth (SW-FC1). It appears that the cave stream loses flow in the final reach, potentially discharging through several small seeps on the bluff immediately north of the Fisher Cave entrance.

- Tin Cup Spring (SW-TC01) was the smallest discharge included in the monitoring program, with approximately 0.1 cfs during the May event and 0.01 cfs during October.

5.2.2.2 Field Parameters

- Field parameters of temperature, pH, and specific conductance were found within expected ranges for natural groundwater in each spring and cave stream sampling location.

5.2.2.3 Analytical Results

- TCE was the only VOC detected in the primary cave stream samples from Meramec Caverns (SW-LJ01 and SW-LJ03). TCE was not detected in other locations. No other VOCs were detected in any spring or cave stream samples. The VOC sampling results are summarized in the table below.

Sample Location	TCE Result		All other VOCs
	May 2010	Oct 2010	May and October 2010
SW-LJ01	1 µg/L	5.1 µg/L	non-detect
SW-LJ02	< 1 µg/L	5.0 µg/L	non-detect
All other spring and cave stream locations	non-detect	non-detect	non-detect

- The increase in TCE concentrations from May to October 2010 corresponds with a decrease in stream flow, as discussed above. Note that the maximum TCE concentration detected in the La Jolla Springs cavern (i.e., 5.1 µg/L) is greater than the maximum TCE concentration detected in groundwater in any well during any sampling event at the landfill (i.e., 3.2 µg/L at well MW-107S in December 2012). Groundwater analytical results are discussed further in Section 5.3.6.
- Detected levels of inorganic constituents in samples from the Meramec Caverns were consistent with concentrations expected for natural waters. No detected values were found above their respective MCLs. In general, dissolved solids concentrations were higher in October than in May, consistent with the lower flow rates and inferred longer average residence time of water in the cave system.

5.3 Groundwater Characterization Results

5.3.1 Landfill Condition

While completing reconnaissance, drilling, and sampling tasks at the Landfill, the condition of landfill was found to be excellent. In general:

- The cap was found to be in good condition throughout the landfill, with no areas of erosion or obvious recent subsidence. A healthy grass cover was observed, with no trees or shrubs.
- No areas of ponding were observed within the Landfill.
- No active seeps were observed within or adjacent to the Landfill.

Throughout the investigation activities, care was taken to minimize damage to the landfill cap. Precautions included postponing work for extensive periods of wet weather, when the landfill was judged to be too soft to bear the weight of the drill rigs and supporting equipment.

5.3.2 Geologic Observations

Observations about nature of the subsurface were generally consistent with expectations, based on prior work completed at the Landfill and at USGS monitoring well MW-1. The geologic framework is described in Section 2.4. Well logs for each boring, including geologic descriptions based on recovered drilling cuttings, are included in Appendix A. Cross-section B-B' (Figure 5-4) illustrates the principal stratigraphic contacts observed. The stratigraphy observed at the landfill is summarized in the table below.



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Approximate Depth (feet bgs)	Unit	Characteristics
0 to 16 (both locations)	Cap and landfill waste materials	Clay cap above mixed general refuse
16 to 90 (MW-107) 16 to 85 (MW-108)	Roubidoux Formation Sandstone	White friable cherty sandstone, highly weathered near surface. Extremely cherty in places.
90 to 250 (MW-107) 85 to 240 (MW-108)	Gasconade Dolomite	Light gray to light brown cherty dolomite. Numerous voids observed throughout unit, both above and below water table (approximately 200 feet bgs). Zone of cavernous voids encountered in both boreholes, approximately 190 to 230 feet bgs.
250 to EOB (MW-107) 240 to EOB (MW-108)	Eminence Dolomite	Light gray, cherty dolomite, trace shale partings. Zone of infrequent voids in upper approximately 80 feet of unit. Zone of frequent voids approximately 340 feet bgs to EOB.

Note:

EOB = end of boring

Unit designations are based on observations of drill cuttings, and geophysical and well-video logging. Note that the transitions between the units are geologically subtle; therefore, the given contact depths should be considered approximate. The Roubidoux Formation, while predominantly sandstone, is characterized as containing a minor component of dolomite, particularly at its base. Both the Roubidoux Formation and the Gasconade Dolomite contain abundant chert. The diagnostic characteristic used to assign the contact for the top of the Gasconade was where sandstone fragments were no longer observed as a component of the drill cuttings.

The Gasconade Dolomite is known to sporadically include a sandstone member (the Gunter Sandstone) at the base of the unit. A coarse brown sandstone, inferred to be the Gunter Sandstone, was described in the boring for MW-1 at an elevation consistent with the base of the Gasconade Dolomite. However, no sandstone was observed at MW-107 or MW-108 at an equivalent elevation. The top of the Eminence Dolomite

shown in Section B-B' (Figure 5-4) was based on the appearance of trace shale partings in the rock cuttings, a diagnostic characteristic of the Eminence Dolomite.

The Eminence Dolomite is underlain by the Potosi Dolomite, at an estimated depth of 450 feet below the landfill (based on the contact observed in well MW-1). Neither MW-107 nor MW-108 is interpreted to have reached the upper contact of the Potosi Dolomite, each borehole terminating shallower than 450 feet bgs.

5.3.3 Open Borehole Groundwater-Level Monitoring

Periodic checks of groundwater depth made throughout the drilling process at each borehole showed that the static groundwater-level surface became progressively deeper as boreholes were drilled deeper. This observation is consistent with prior observations at the Site, and the known strong downward vertical gradient (e.g., the groundwater level in well MW-1A is a consistently 20 to 30 feet higher than in adjacent deeper well MW-1).

Open borehole groundwater levels are shown schematically on the geophysical boring logs in Appendix A. In general:

- The shallowest observations of steady groundwater levels were at depths of approximately 185 feet bgs in both boreholes, measured after the boreholes had been advanced to the base of a cavernous zone at approximately 235 feet bgs.
- Measured steady groundwater levels declined with each progressive deepening of the borehole.
- After completion of each borehole to their total depths (410 to 420 feet bgs), water levels had declined by approximately 30 feet.

The groundwater levels in a long open borehole are a complex average of the heads throughout the entire saturated section of the borehole; thus, the measured levels only indicate the strength of the downward gradient, without allowing rigid quantification. Note that the shallowest levels (approximately 185 feet bgs) are considered valid measurements of the groundwater table surface at the time of measurement, because the borehole had not yet been drilled significantly deeper than that level. After the boreholes had been drilled to their completed depths, the 30-foot decline in the borehole water level indicated that 30 feet of the saturated portion of the aquifer was temporarily dewatered within the borehole.

5.3.4 Geophysical Logging Results

Geophysical logging results confirm borehole observations and show general agreement with previous logging at MW-1. Logging results are presented schematically in Appendix A. The logging results support several general observations:

- Caliper logs identify several zones of solution-enlarged porosity. In both boreholes, the most pronounced region of voids occurred in the zone from approximately 190 to 230 feet bgs, in the range of the water-table surface.
- Video logging confirmed the presence of the major voids shown by the caliper log, but also showed that several smaller voids exist that were not clearly identified by the caliper. This was particularly evident in the basal 75 feet of each borehole (a zone described as the “transmissive zone”), where many voids of 1 foot or less in vertical extent only partly intersect the borehole. (Note that the 3-arm caliper does not expand fully if only one or two of the arms crosses a void).
- The video logging showed groundwater entering the borehole from within the shallow zone of cavernous porosity at depths of approximately 200 feet bgs. Note that this was above the water level in the open borehole at the time of logging, but below the level where the water table was initially observed during drilling (and also where it was subsequently observed in the completed shallow wells MW-107S and MW-108S).
- Fluid temperature and resistivity logs identified areas of the boreholes with apparent fluid communication with the formation. Perturbations in these water parameters are most distinct in borehole MW-108 adjacent to apparent voids or fractures in the transmissive zone (approximately 340 to 400 feet bgs). Perturbations in MW-107 are considerably less pronounced, suggesting less focused mixing with formation water.
- Natural gamma logs can be useful for distinguishing petrologically distinct strata and correlating units between boreholes. In general, the gamma profiles in MW-107 and MW-108 correlate well, though there are no clear gamma markers that can be used to distinguish between the formations (i.e., the petrology of the Gasconade and Eminence Dolomites is not clearly distinguishable based on gamma alone). In several cases, high gamma anomalies appeared to correlate with large open voids, which contained clay sediments (a common source of gamma radiation).

- Heat-pulse flow logging under ambient conditions showed several clear trends in both boreholes:
 - Strongly downward flow starting near the water surface (approximately 230 feet bgs) and continuing at a generally steady to slightly gaining rate to a depth of approximately 340 feet bgs. This indicates a strong influx of water to the borehole at the top of the zone of saturation, followed by nearly 100 feet in which relatively little additional groundwater enters the borehole.
 - A gradual decline in vertical flow rates down to zero vertical flow from approximately 340 to 380 feet bgs. This interval corresponds to the previously identified transmissive zone, where flow is discharging from the borehole into the aquifer.
 - Upward vertical flow in the very base of the each borehole, converging on the transmissive zone. This trend is consistent with logging completed previously at MW-1, where upward flow toward the transmissive zone was logged extending approximately 150 feet deeper into the stratigraphic section.
- The heat-pulse flow logging showed that the ambient downward flow rate in MW-108 is greater than in MW-107. The maximum rate flow in MW-107 was 0.9 gallon per minute (gpm). In MW-108, the flow exceeded the maximum rate measurable by a high-pressure flow meter (approximately 1 gpm). The difference appears to reflect a somewhat higher yield (i.e., better connection with the aquifer) in MW-108.

5.3.5 Screening Sample Results

As indicated in Section 4, a variety of screening-level samples were collected throughout the drilling and borehole testing process to evaluate the vertical distribution of COPCs and provide data to help select appropriate well screen intervals. Two distinctly different types of samples were collected:

- Slurry samples were collected above the water table, consisting of drilling water mixed with rock cuttings.
- Groundwater samples, collected as grab or post-pumping samples at several stages of increasing borehole depth.

These sample results must be interpreted somewhat differently, and therefore are described separately below.

5.3.5.1 Slurry Sample Results

Slurry sample results (Table 5-4) document the analytes that were detected in drilling fluids after it had been circulated through pulverized rock cuttings in the borehole, then bailed out and decanted. The slurry samples were not originally proposed in the Site Characterization Work Plan, are outside the normal environmental data quality objectives and protocol for the project. TRW only collected these samples as split samples because USEPA started collecting slurry samples during their drilling oversight. These samples were collected above the zone of saturation, and therefore are not groundwater samples. The results are intended to indicate whether a source of COPCs may exist in the unsaturated zone that may impact groundwater. The primary findings from the slurry samples include:

- The most significant VOCs detected in slurry samples are Freons and methylene chloride. The slurry sample collected from 97 feet bgs in MW-107 contained 1,600 µg/L Freon 21 and 3,500 µg/L methylene chloride.
- Some hydrocarbons were detected sporadically in slurry samples. Toluene (maximum concentration of 580 µg/L) was most significant, while m/p xylenes and benzene were detected at lower concentrations.
- Trace levels of the chlorinated VOCs PCE, TCE, and 1,1-dichloroethane (1,1-DCA) were detected only in the deepest samples (185 feet bgs in both MW-107 and MW-108), at concentrations of 2.6 µg/L or less. At 185 feet bgs, these samples may have been within the range of seasonal water table oscillation (or capillary effects), and therefore may be influenced by groundwater. The detected concentrations are, in fact, highly comparable to the shallow groundwater sample results described below.

5.3.5.2 Pumping and Grab Water Sample Results

In both boreholes, pumping and grab water samples contained a generally consistent mix of VOCs at low concentrations. VOC results are summarized in Table 5-5; inorganic results are summarized in Table 5-6. These data must be qualified by two important considerations:

- Because samples were collected in open boreholes, the sample results may not be specific to the depth at which they were collected. The longer the borehole, the greater uncertainty about the specificity of the samples. (Note that the depth and the open interval of each sample are indicated in the table headers.)
- Because vertical flow is known to occur in the boreholes (generally in the downward direction), samples are likely to be biased toward zones where water is entering the borehole, regardless of the depth they were collected.

While purging the wells in advance of sampling from the target depth improves the likelihood that the sample water is derived from near the sample intake, some uncertainty remains. Even with these uncertainties, several important observations may be drawn from the sampling results:

- Several Freon constituents (specifically Freon 11 and Freon 21) are the predominant VOC constituents detected, and were found in all grab water samples analyzed. Freon 21 was detected at the highest concentrations of any VOC, at a maximum of 100 µg/L. Freon 11 is present at concentrations as much as 32 µg/L.
- Chlorinated VOCs were detected at all depths, but only at low concentrations. The maximum concentrations of TCE were 3.2 µg/L in MW-107 and 3.3 µg/L in MW-108.
- Inorganic analytical results (Table 5-6) included no detections at levels of concern. Lead and chromium were both found below detection limits. Other metals and inorganic compounds are consistent with natural groundwater, with no levels of constituents suggestive of landfill leachate.

Screening-level borehole groundwater analytical data are consistent with slurry results, both in the nature of constituents and the concentrations detected. In particular, the presence of Freon 21 and Freon 11 as the most abundant VOCs agrees with the slurry sample data. The low levels of chlorinated VOCs also provides further evidence that the Landfill is not a significant source of those constituents.

5.3.6 Groundwater Sampling Results

Four consecutive quarterly rounds of groundwater monitoring at the Landfill have shown that no detected constituents are present in groundwater at levels of concern. Table 5-7 summarizes the analytical results for VOCs. Figure 5-5 presents the results

of the principal COPCs. A total of 15 VOCs were detected at least once in a groundwater sample. Of these constituents, none exceeded the USEPA's MCLs. The table below summarizes the detected constituents and related criteria. For constituents where MCLs have not been assigned, the USEPA Regional Screening Levels (RSLs; USEPA 2012) are shown for reference.

VOCs Detected in Groundwater	Maximum Detected Concentration (µg/L)	MCL (µg/L)	Tapwater RSL (µg/L)
PCE	1.8	5	
TCE	3.5	5	
cis-1,2-Dichloroethene	0.78	70	
1,1-DCE	0.67	7	
1,1,1-Trichloroethane	1.0	200	
1,1-DCA	3.2	--	2.4
Freon 11	160	--	1100
Freon 12	10	--	190
Freon 21	150	--	--
Toluene	2.9	1,000	
1,2,3-Trichlorobenzene	0.33	--	5.2
Methylene chloride	0.51	5	
1,2-Dichlorobenzene	0.15	600	
Chloroform	0.48	80	
Naphthalene	0.54	--	--

Note:

-- = level is not defined

Note that MCLs are not defined for the detected Freon constituents. For Freon 11 (trichlorofluoromethane) and Freon 12 (dichlorodifluoromethane), the detected levels are significantly below their respective RSLs. Neither an MCL nor an RSL has been assigned for Freon 21 (dichlorofluoromethane) or naphthalene. The maximum concentration of 1,1-dichloroethane, for which MCLs have not been defined, slightly exceed the RSL. Recall, however, that RSLs are non-enforceable generic risk-based screening levels, appropriate for "screening" only.

The distribution of VOCs detections in groundwater is presented on Figure 5-5. The data support several observations:

- The principal COPCs (i.e., TCE and Freon 11) are present at low but detectable concentrations in all shallow wells (i.e., wells that screen within the Gasconade Dolomite near the water table). No concentrations exceed MCLs, and no concentrations are suggestive of a significant source.

- For the two wells with long open intervals connecting the shallow zone with the deeper transmissive zone in the Eminence Dolomite (i.e., the Voss well and MW-1A), the detected constituents and range of concentrations are indistinguishable from shallow wells. Based on observations of ambient downward vertical flow in long open boreholes, it is inferred that the principal source of the water in those wells is from the shallow portion of their screened zones.
- The principal COPCs are present at detectable concentrations in both of the wells completed in the transmissive zone (MW-107D and MW-108D). Concentrations at MW-107D are markedly lower than at wells completed in the shallow zone, suggesting dilution of shallow concentrations within the transmissive zone. The distribution of detectable constituents and their concentrations at MW-108D are indistinguishable from those found in shallow groundwater, suggesting a relatively efficient vertical connection of shallow and deep groundwater at that location. Note that MW-108D is adjacent to a former sinkhole, though the vertical extent of the sinkhole structure is not likely to have extended as deep as the transmissive zone.
- The only location at which none of the principal COPCs were detected is well MW-1 which, as shown on Figure 5-4, is open at a depth below the transmissive zone. As discussed in Sections 5.3.4 and 5.3.7, groundwater appears to migrate vertically toward the transmissive zone from both above and below, such that wells completed below this zone are isolated from local surficial inputs.

The concentrations of inorganic constituents analyzed were all found within acceptable bounds (Table 5-8). While detectable concentrations were reported for 24 of the 26 inorganic analyses (a typical result for natural water samples), concentrations of constituents for which an MCL is assigned were all below their respective limits. The table below reports the maximum detected concentrations of the six inorganic analytes with assigned MCLs.

Detected Inorganic Constituent with MCL	Maximum Detected Concentration (µg/L)	MCL (µg/L)
Barium	370	2,000
Chromium	47	100
Lead	6	15
Nitrate-N	2,000	10,000
Nitrite-N	<100	1,000
Fluoride	78	4,000

Other metals and inorganic compounds are consistent with natural groundwater, with no levels of constituents suggestive of landfill leachate.

5.3.7 Groundwater Gauging and Interpretations of Flow

The depth to the zone of saturation beneath the landfill is between approximately 160 and 200 feet bgs, varying seasonally and by location.

Due to the strength of the downward gradient, the water levels in shallow wells are not necessarily reliable indicators of the depth of the water table. The wells with longer open intervals (such as MW-1A), or wells that are screened deeper in the aquifer, are biased low relative to the apparent water table and would not be appropriate for contouring. For this reason, potentiometric surface maps have not been prepared.

Though the precise depth of the groundwater table is uncertain, elevation of the zone of saturation is generally 130 feet or more deeper than Winsel Creek or other surface-water features; therefore, it is impossible for phreatic groundwater to discharge to surface water locally.

Due to the karst nature of the bedrock aquifer, interpretations of flow based on groundwater level data must be heavily qualified. In all aquifers, the hydraulic gradient is a central parameter needed to interpret patterns of groundwater flow. However, in karst aquifers, the normal assumption that flow occurs more or less uniformly throughout the aquifer volume is invalid. Flow in karst aquifers is almost entirely focused within interconnected networks of solution-enlarged voids, termed conduits. Therefore, the direction of flow cannot be directly inferred from a potentiometric surface map. Groundwater can only flow from areas of higher head to lower head, but will only do so following the available conduit network pathways.

Flow patterns at the Landfill cannot be evaluated without also considering the vertical component of flow. Figure 5-6 illustrates the relationship between the water-level elevation and the well depth. The plot shows that the lowest water-level elevations at the landfill are measured at wells completed within the hydrostratigraphic interval of the Eminence Dolomite referred to as the transmissive zone (i.e., MW-107D and MW-108D). This observation is consistent with geophysical logging completed at MW-107 and MW-108 (and previously at MW-1), which showed convergence of vertical flow toward the transmissive zone. The patterns suggest that karst

development in the transmissive zone is significant relative to the bulk of the aquifer, and that it dominates the lateral transmission of water in the aquifer.

While head relationships suggest that flow should occur between the shallow aquifer and the transmissive zone, where flow paths exist, the extreme differences in head also suggest that hydraulic connections are limited either in frequency or efficiency. It can be inferred that the bulk movement of shallow groundwater has both a lateral and vertical component, with local flow paths varying enormously depending on the geometry of the conduit network. Where vertical pathways exist, they are expected to act as drains to the deeper groundwater system, funneling water down to the transmissive zone. The existence of vertical connections appears clear based on groundwater sampling results at MW-107D and MW-108D, which contain a highly similar mixture of VOCs relative to shallow groundwater, though notably at concentrations below MCLs even immediately beneath the Landfill.

Inferences about groundwater flow patterns in the transmissive zone can be drawn from the hydraulic setting. For a water-level elevation of approximately 690 feet amsl, as occurs in the transmissive zone beneath the Landfill, the nearest area where the ground surface descends to that elevation (and thus where groundwater could potentially discharge) is approximately 1.2 miles due east in Copper Hollow. To the north or northwest (e.g., staying within the Winsel Creek drainage basin), the nearest areas of equivalent elevation are at least 4.5 miles distant, and far less probable discharge locations. The major spring discharges in and adjacent to Copper Hollow (i.e., La Jolla and Copper Hollow Springs) are the most probable locations for water in the transmissive zone beneath the Landfill to discharge. As illustrated in cross-section A-A' (Figure 2-4), the elevation of these major spring discharges is comparable to that of the transmissive zone. Meramec Caverns appears to have formed in the same approximate zone of the Eminence Dolomite. It is also important to note that no significant perennial groundwater discharges occur at higher elevations than these springs. This provides evidence that shallower groundwater, as is found in the Gasconade Dolomite beneath the Landfill, drains completely into the transmissive zone and does not persist as an independent shallow aquifer with a significant role in lateral groundwater transport.

The volume of groundwater discharge at La Jolla or Copper Hollow Springs indicates that they have significant catchments, of which the Landfill would be a minor component. Given the lower concentrations of TCE found in groundwater at the Landfill, the dilution that must inevitably occur between the Landfill and La Jolla Springs



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Cave (if a connection exists), and the documented existence of background sources of TCE, there is no basis to ascribe the TCE detections in the cave to the Landfill.

6. Nature and Extent of Constituents of Potential Concern

6.1 Identified Constituents of Potential Concern

As described in Section 5, no constituents detected at the Landfill occur in groundwater at concentrations above MCLs. The sample results indicate the presence of 15 VOCs at detectable concentrations:

- Chlorinated VOCs: PCE, TCE, cis-1,2-dichloroethene, 1,1-DCE, 1,1,1-trichloroethane, 1,1-DCA
- Freon compounds: Freon 11, Freon 12, Freon 21
- Other VOCs: Toluene, 1,2,3-trichlorobenzene, methylene chloride, 1,2-dichlorobenzene, chloroform, naphthalene

No inorganic compounds were detected in groundwater at levels of potential concern.

In surface-water and spring samples, the only location where a VOC was detectable was in the primary cave stream at La Jolla Springs Cave (TCE at a maximum of 5.1 µg/L, slightly above the MCL). Given the lower concentrations of TCE found in groundwater at the Landfill, the dilution that must inevitably occur between the Landfill and La Jolla Springs Cave (if a connection exists), and the documented existence of background sources of TCE, there is no basis to ascribe the TCE detections in the cave to the Landfill.

6.2 Potential Source

The low-level concentrations of VOCs detected in groundwater immediately beneath the Landfill are interpreted to be related to distributed residual landfill wastes. The absence of any source level or moderately higher concentration sample results at any of the completed investigation locations suggests that the Landfill is not the source area for the TCE detected at the Oak Creek Village Well and fully does not account for the TCE levels found in La Jolla Springs.

In the transmissive zone (i.e., MW-107D and MW-108D) the detectable concentrations of VOCs are consistent with detections in shallower groundwater, and may be attributed at least in part to a Landfill source. Groundwater in the transmissive zone

may also reflect a component background-sourced TCE and other constituents, documented to exist during other investigations (e.g., MDNR 2005).

6.3 Media of Interest

Groundwater is the only media of potential interest at the Landfill. As noted previously, Site data do not support the existence of an impact to surface water.

6.4 Extent of Constituents of Potential Concern in Groundwater

Low-level detectable VOCs are present in all monitoring wells completed within and surrounding the Landfill. No levels exceed MCLs; therefore, the extent of groundwater impact is interpreted to be nonexistent. The extent to which VOCs may remain at detectable concentrations is unknown, but is not anticipated to be extensive. In shallow groundwater, net-lateral movement is expected to be limited by a tendency for groundwater to migrate vertically downward toward the transmissive zone. Constituents entering the transmissive zone are anticipated to dilute quickly. Levels of constituents at deep well MW-108D are commensurate with shallow groundwater concentrations, indicating that the well is proximal to an area of shallow groundwater input.

The general uniformity of detectable constituents and constituent concentrations provides an additional basis to validate the usefulness of the monitoring well network. Monitoring wells are often poor means of evaluating groundwater quality in karst aquifers due to the irregularity of conduit networks and the low probability that a well will intersect an important conduit pathway. These limitations apply at the Landfill; however, the uniformity of detections suggests a higher degree of mixing and flow interconnection than are normally expected in karst. This condition greatly reduces the possibility that a high concentration source mass exists that is not properly monitored by the current well network. The detections at deep wells MW-107D and MW-108D, in particular, verify their appropriateness as monitoring points for evaluating potential groundwater impacts to the transmissive zone.

The maximum detected concentrations of TCE found at the Landfill are sufficiently low that there is no reasonable probability that the TCE detected at La Jolla Springs Cave (2 miles east) and the Oak Grove Village wells (1 mile southwest) originated at the Landfill. The major points supporting this argument are summarized below:

- Concentrations of TCE at the Oak Grove Village Wells (OGV Well 1 and 2) have been detected as high as 99.4 µg/L (Benham, 2005). Sample results for these wells are variable, but are commonly greater than 50 µg/L, particularly during the most recent years (2005, 2006, and 2007).
- In order for the Landfill to be a plausible source of TCE to the Oak Grove Village Wells, a complete flow path would need to exist (which is highly uncertain) and the landfill would need to contain a zone of source-level TCE concentrations. No data from the Landfill suggest that a high-concentration TCE source exists. Concentrations of TCE in groundwater at the Landfill have historically not exceeded 6.8 µg/L (at well MW-104 in May 2002; see historical data in Appendix C). Historically, the private Voss well, located immediately adjacent to the landfill and actively pumped, has also not exceeded 5.4 µg/L (also in May 2002; based on MDNR supplied data). With the current density and distribution of monitoring wells and sampling data, a source of TCE sufficient to support the level of concentrations detected at the production wells could not reasonably exist at the Landfill and remain undetected.
- While a flow connection from the Landfill to La Jolla Springs Cave is plausible, it is not possible for TCE originating at the Landfill to be transported 2 miles through the bedrock aquifer without any attenuation by dilution or other processes. A spring, like a pumping well, is a flow collector; thus any source contributing TCE within the spring's catchment will be significantly diluted by the clean water contributed within the rest of the catchment. The highest concentration of TCE detected in the cave (5.1 µg/L in October 2010) is greater than the highest concentration of TCE detected in groundwater at the Landfill during the last four quarters of sampling (3.5 µg/L at MW-4 in March 2012).

6.5 Data Trend Analysis

The four recent quarterly rounds of groundwater monitoring data, discussed previously, may also be shown to be representative of historical conditions at the Landfill. Historical results and trend plots, including results dating to 1992, are included for selected indicator parameters in Appendix C. The plots include TCE, its breakdown products cis-1,2-dichloroethene and vinyl chloride, and Freon constituents. The trend plots support several observations:



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- Historical maximum concentrations of TCE include values as high as 6.8 µg/L (slightly above the MCL of 5 µg/L), but no levels indicative of a significant source. No concentrations greater than the MCL have been detected since 2006.
- Other than TCE, no historical concentrations of constituents have occurred above MCLs. For Freon constituents, no historical concentrations have occurred above RSLs.
- Some seasonal and location-by-location variability in constituent concentrations is evident, likely reflecting minor shifts in flow patterns due to changes in aquifer stage. It is important to note that the range of variability observed remains consistently below MCLs or levels that suggest a fundamental change in the conditions of the Site.

7. Potential Exposure Pathways

No exposure pathways have been identified at the Landfill. In particular:

- Levels of constituents in groundwater are safely below applicable criteria, and do not pose a risk for potable water use in the vicinity.
- The landfill's leachate collection system is understood to properly manage any landfill leachate production. No leachate was observed in borings and no leachate seeps were observed at grade either on the Landfill perimeter or outside the Landfill approaching Winsel Creek. Winsel Creek is a consistently losing stream, and is not affected by the Landfill.
- The springs and cave streams monitored east of the Landfill are interpreted to be likely discharge locations for groundwater traveling beneath the landfill. However, the absence of significant groundwater impacts at the Landfill eliminates the groundwater discharge locations as potential receptors.

While the levels of constituents detected in groundwater at the landfill are below concentrations that require action, modifications to the construction of two existing wells located adjacent to the Landfill would help limit the flow of shallow groundwater into the transmissive zone. Both the Voss private water well and USGS monitoring well MW-1A are constructed with long open intervals that extend through shallow groundwater down to, if not into, the transmissive zone.

8. Summary and Conclusions

The Phase 1 Site characterization has fulfilled the objectives of the RI/FS process, as summarized below:

- Provided data to better understand and describe the SI Area's physiography, geology, and hydrology.
- Shown that the Landfill is not a source area of COPCs to groundwater at levels above MCLs.
- Shown the absence of surface migration pathways and, to the extent feasible in a karst environment, described the nature of groundwater migration pathways.
- Demonstrated the absence of detectable COPCs related to the Landfill in Winsel Creek, and in springs and cave streams within the SI Area.

Multiple lines of evidence suggest that additional characterization, a risk assessment, or remediation are not warranted or justified at this Site:

- No seeps were observed on the periphery of the Landfill, and are thereby eliminated as a potential exposure pathway. The absence of seeps at the landfill is consistent with the long-term decline in leachate production observed in the Landfill's leachate collection system.
- No seeps were observed between the Landfill and Winsel Creek, and are thereby eliminated as a potential exposure pathway.
- No VOCs were detected in the Winsel Creek samples collected as part of the Phase 1 Site Characterization
- The detected levels of ionic compounds from samples collected in Winsel Creek were within the expected range for natural stream water. Concentrations of compounds associated with wastewater (e.g., sulfate, phosphorous) were marginally higher in the Winsel Creek sample collected downstream of the wastewater treatment plant outfall.

- All detections of TCE in the Landfill sampling network, including the four new wells (MW-107S, MW-107D, MW-108S, and MW-108D) were below MCLs for four quarterly sampling events. The maximum concentration of TCE detected at that time was 3.5 µg/L. By comparison, one sample collected from the stream at the La Jolla Spring Cave Complex contained a TCE concentration of 5.1 µg/L; TCE concentrations in samples collected at the Oak Grove Village Well have historically ranged as high as 99.4 µg/L (Benham 2005).
- The new wells installed as part of the Phase I Site Characterization were specifically located by the USEPA in the areas where potential landfill impact to groundwater would be observed; however, TCE was not detected at concentrations that exceeded MCLs through four quarters of groundwater sampling.
- The Landfill is not a source of the TCE-impacts detected at either the Oak Grove Village Well or the La Jolla Springs Cave Complex. This conclusion is based on the low concentrations found in groundwater beneath the Landfill, and the dilution that must inevitably occur between the Landfill and La Jolla Springs Cave or the Oak Grove Village Well (if a flow connection exists). With the density of monitoring wells at the Landfill, and the uniformly low concentrations of TCE detected, it is highly implausible that a significant source could exist at the Landfill that would have gone undetected. With these considerations, and the documented existence of other sources of TCE in the area, there is no basis to ascribe the TCE detections in the cave or the Oak Grove Village Well to the Landfill.
- TCE concentrations in groundwater directly beneath the landfill are orders of magnitude less than TCE-impacted groundwater from the Oak Grove Village Well.

Based on the results of this investigation, no assessment of risk to human health and the environment is required, and no remedial action is necessary.

While the levels of constituents detected in groundwater at the landfill are below concentrations that require action, modifications to the construction of two existing wells located adjacent to the Landfill would help limit the flow of shallow groundwater into the transmissive zone. Both the Voss private water well and USGS monitoring well MW-1A are constructed with long open intervals that extend through shallow groundwater down to, if not into, the transmissive zone. With the known downward component of flow in open boreholes, discussed previously, it is recommended that the



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Voss Well and MW-1A are either abandoned, modified to incorporate a smaller screened interval, or replaced.

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Table 4-1. Summary of Analytes for the Phase 1 Site Characterization

<u>TCL Volatile Organic Compounds by Method¹ 8260B</u> (unfiltered)	
Benzene	Toluene
Bromodichloromethane	1,2,4-Trichlorobenzene
Bromoform	1,1,1-Trichloroethane
Bromomethane	1,1,2-Trichloroethane
Carbon tetrachloride	Trichloroethene
Chlorobenzene	Trichlorofluoromethane (CFC 11)
Dibromochloromethane	Vinyl chloride
Chloroethane	Bromobenzene
Chloroform	Bromochloromethane
Chloromethane	n-Butylbenzene
1,2-Dibromoethane	sec-Butylbenzene
1,2-Dichlorobenzene	tert-Butylbenzene
1,3-Dichlorobenzene	2-Chlorotoluene
1,4-Dichlorobenzene	4-Chlorotoluene
Dichlorodifluoromethane (CFC 12)	Dibromomethane
1,1-Dichloroethane	1,3-Dichloropropane
1,2-Dichloroethane	2,2-Dichloropropane
cis-1,2-Dichloroethene	1,1-Dichloropropene
trans-1,2-Dichloroethene	Hexachlorobutadiene
1,1-Dichloroethene	p-Isopropyltoluene
Dichlorofluoromethane (CFC 21)	Naphthalene
1,2-Dichloropropane	n-Propylbenzene
cis-1,3-Dichloropropene	1,1,1,2-Tetrachloroethane
trans-1,3-Dichloropropene	1,2,3-Trichlorobenzene
Ethylbenzene	1,2,3-Trichloropropane
Isopropylbenzene	1,2,4-Trimethylbenzene
Methylene chloride	1,3,5-Trimethylbenzene
Styrene	m-Xylene & p-Xylene
1,1,2,2-Tetrachloroethane	o-Xylene
Tetrachloroethene	
<u>Metals by Method 6010B</u> (field-filtered)	<u>Compound by Method</u> (field-filtered excepted as noted)
Barium	Chloride by 9056A
Boron	
Calcium	Sulfate by 9056A
Iron	
Magnesium	ortho-Phosphate by 9056A
Manganese	
Nickel	Total phosphorus by 4500-P E
Potassium	
Sodium	Bromide by 9056A
Zinc	
Chromium	Nitrate as N by 9056A
Lead	
<u>Metals by Method 6020</u> (field-filtered)	Nitrite as N by 9056A
Strontium	
<u>Metals by Method 6010B (TAL Pittsburgh)</u> (field-filtered)	Fluoride by 9056A
Lithium	Nitrogen as Ammonia by 4500 NH3 E
Silica	
Strontium	Bicarbonate Alkalinity by 2320 B (unfiltered)
	Carbonate Alkalinity by 2320 B (unfiltered)

Notes: 1 - USEPA-approved methods for laboratory analysis
2 - inorganic samples (except for alkalinity) will be field-filtered prior to collection

Table 4-2 Well Construction Details and Water-Level Measurements

Well ID	Survey				Screened or Open Interval (bgs)						Water-Level Depth				Water-Level Elevation			
	Northing (ft)	Easting (ft)	Surface Elevation	TOC Elevation	Type	Top Depth	Bottom Depth	Top Elev.	Bottom Elev.	Total Sounded Depth ²	3/4/12	6/18/12	9/10/12	12/12/12	3/4/12	6/18/12	9/10/12	12/12/12
	(ft)	(ft)	(ft msl)	(ft msl)		(ft bgs)	(ft bgs)	(ft msl)	(ft msl)	(ft TOC)	(ft TOC)	(ft TOC)	(ft TOC)	(ft TOC)	(ft msl)	(ft msl)	(ft msl)	(ft msl)
MW-1	874690.6	637653.3	858.4	859.50	open	349	505	509	353	NM	164.56	165.08	168.64	175.50	694.94	694.42	690.86	684.00
MW-1A	874690.6	637653.3	858.4	860.64	open ¹	104	280	754	578	NM	135.84	141.45	147.55	150.87	724.80	719.19	713.09	709.77
MW-101	875201.0	637220.4	884.0	886.47	screen	152	182	732	702	185.5	159.82	160.93	166.12	168.38	726.65	725.54	720.35	718.09
MW-102A	875379.3	638314.9	892.2	894.78	screen	257	277	635	615	275.9	185.32	187.80	193.45	196.40	709.46	706.98	701.33	698.38
MW-102B	875390.0	638310.8	892.4	895.23	screen	176	206	716	686	209.7	173.64	178.18	186.58	187.90	721.59	717.05	708.65	707.33
MW-103	876075.6	636632.0	875.4	877.73	screen	175	205	700	670	207.1	179.61	180.69	185.37	188.81	698.12	697.04	692.36	688.92
MW-104	876181.9	637595.8	895.5	898.20	screen	169	199	727	697	200.6	176.53	176.89	181.15	186.23	721.67	721.31	717.05	711.97
MW-105	874977.1	638087.0	879.4	880.89	screen	144	174	735	705	176.8	146.13	150.75	154.91	152.58	734.76	730.14	725.98	728.31
MW-107S	875990.8	637559.1	919.2	922.24	screen	200	220	719	699	223.3	202.83	204.64	208.98	211.95	719.41	717.60	713.26	710.29
MW-107D	875990.8	637559.1	919.2	922.24	screen	355	375	564	544	377.8	229.20	230.09	234.39	238.54	693.04	692.15	687.85	683.70
MW-108S	875475.8	637687.2	920.8	923.79	screen	192	212	729	709	215.7	192.15	194.62	201.49	204.12	731.64	729.17	722.30	719.67
MW-108D	875475.8	637687.2	920.8	923.80	screen	363	383	558	538	385.3	230.40	231.36	235.50	213.73	693.40	692.44	688.30	710.07
Voss ³	NM	NM	NA	NA	open	107	356	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

¹ Well MW-1A completed in same borehole as MW-1. MW-1A open interval is the annular space outside MW-1 riser.

² Total well depths measured March 14, 2012. (Note: TDs of MW-107D and MW-108D were corrected by adding 100 ft.)

³ Voss construction details based on camera survey and geophysical logging completed February 2005, reported in Appendix B of Phase II RI (MDNR, 2006)

Abbreviations: NM = not measured; NA = not available; TOC = top of casing; bgs = below ground surface; msl = mean sea level



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TRW Automotive U.S. LLC

Oak Grove Village Well Superfund Site - OU 2

City of Sullivan Landfill

Table 5-1 Spring and Surface Water Gauging Results

May 2010 Sampling Event							October 2010 Sampling Event					
Location	Date and Time of Sample	Temp. (C°)	pH	Specific Cond. (µ mhos/cm)	Stream Flow (ft³/sec)	Time of Flow Measurement	Date and Time of Sample	Temp. (C°)	pH	Specific Cond. (µ mhos/cm)	Stream Flow (ft³/sec)	Notes
Winsel Creek Locations												
SW-WC1	5/25/2010 12:30	22.6	7.19	241	2.97	15:40						
SW-WC2	5/25/2010 13:40	22.8	7.5	198	2.43	16:10						
SW-WC3	5/25/2010 14:31	24.0	7.58	191	2.23	17:10						
SW-WC4	5/25/2010 15:05	24.7	7.62	197	2.18	17:45						
Fisher Cave Locations												
SW-FC1	5/26/2010 10:15	12.9	7.79	414	0.09	10:20	10/13/2010 9:30	11.3	8.04	352	0.007	
SW-FC2	5/26/2010 11:00	12.8	7.63	394	0.24	10:50	10/13/2010 10:30	12.4	8.08	348	0.013	
SW-FC3	5/26/2010 11:20	12.9	7.88	416	0.02	11:30	10/13/2010 10:45	12.5	8.02	328	0.011	
Copper Hollow and Tin Cup Springs												
SW-CH01	5/26/2010 15:40	12.7	7.02	206	2.47	16:15	10/14/2010 16:00	12.3	7.4	366	0.346	
SW-TC01	5/26/2010 17:40	12.2	7.24	449	0.12	17:30	10/14/2010 16:30	11.8	7.57	481	0.012	
LaJolla Spring Locations												
SW-LJ01	5/27/2010 8:45	13.1	7.19	328	9.27	19:30	10/13/2010 8:00	12.8	7.17	361	5.8	
SW-LJ02	5/27/2010 9:05	12.6	7.44	281	NM	NA	NA	NA	NA	NA	NA	location dry in Oct. 2010
SW-LJ03	5/27/2010 9:50	13.1	7.23	327	NM	NA	10/13/2010 9:30	12.7	7.28	378	NA	

Notes:

Winsel Creek flows reflect recession after rainfall the night before (5/24/10) totaling approx. 0.5-inch.

Contemporaneous USGS Flow Measurements (as reported to ARCADIS):

Location	Date	Time	Q (cfs)
SW-WC1	5/25/2010	12:05	1.94
Crossing downstream of WC-2	5/25/2010	9:00	2.53
Crossing downstream of WC-2	5/25/2010	13:15	1.47
SW-WC2	5/25/2010	16:03	2.27
SW-WC4	5/25/2010	15:18	2.50
SW-CH01	5/26/2010	NA	NA
SW-LJ01	5/27/2010	8:30	8.50
SW-LJ03	5/27/2010	10:20	7.80
SW-LJ01	10/13/2010	8:30	5.00
SW-LJ03	10/13/2010	9:30	4.20



				Location ID	DUP	SW-CH01	SW-CH01	SW-FC01	SW-FC01	SW-FC02	SW-FC02	SW-FC03	SW-FC03	SW-LJ01	SW-LJ01	SW-LJ02	SW-LJ03	SW-LJ03	SW-TC01	SW-TC01
				Sample ID	20101013	201005261550	20101013-1600	20100526	20101014-0930	20100526	20101014-1030	20100526	20101014-1045	201005270800	20101013-0800	201005270850	201005270920	20101013-0930	201005261740	20101013-1630
				Sample Date	10/13/2010	5/26/2010	10/13/2010	5/26/2010	10/14/2010	5/26/2010	10/14/2010	5/26/2010	10/14/2010	5/27/2010	10/13/2010	5/27/2010	5/27/2010	10/13/2010	5/26/2010	10/13/2010
Chemical Name	Test Type	Unit																		
VOCs 1,1,1,2-TETRACHLOROETHANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,1,1-TRICHLOROETHANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,1,2,2-TETRACHLOROETHANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,1,2-TRICHLOROETHANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,1-DICHLOROETHANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,1-DICHLOROETHENE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,1-DICHLOROPROPENE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,2,3-TRICHLOROBENZENE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,2,3-TRICHLOROPROPANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,2,4-TRICHLOROBENZENE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,2,4-TRIMETHYLBENZENE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,2-DIBROMOETHANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,2-DICHLOROBENZENE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,2-DICHLOROETHANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,2-DICHLOROPROPANE	Initial	ug/L	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOCs 1,3,5-TRIMETHYLBENZENE	Initial	ug/L	< 1 U																	



Table 5-3. Spring and Surface Water Inorganic Analytical Results

			Location ID	DUP	SW-CH01	SW-CH01	SW-FC01	SW-FC01	SW-FC02	SW-FC02	SW-FC03
				SW-DUP-	SW-CH01-	SW-CH01-	SW-FC1-	SW-FC01-	SW-FC2-	SW-FC02-	SW-FC3-
			Sample ID	20101013	201005261550	20101013-1600	20100526	20101014-0930	20100526	20101014-1030	20100526
			Sample Date	10/13/2010	5/26/2010	10/13/2010	5/26/2010	10/14/2010	5/26/2010	10/14/2010	5/26/2010
Chemical Name		Test Type	Unit								
Metals	BARIUM	Initial	ug/L	< 200 U	NA	NA	NA	NA	NA	NA	NA
Metals	BORON	Initial	ug/L	< 200 U	NA	NA	NA	NA	NA	NA	NA
Metals	CALCIUM	Initial	ug/L	40500	NA	NA	NA	NA	NA	NA	NA
Metals	CHROMIUM	Initial	ug/L	< 5 U	NA	NA	NA	NA	NA	NA	NA
Metals	IRON	Initial	ug/L	< 100 U	NA	NA	NA	NA	NA	NA	NA
Metals	LEAD	Initial	ug/L	< 3 U	NA	NA	NA	NA	NA	NA	NA
Metals	LITHIUM	Initial	ug/L	< 50 U	NA	NA	NA	NA	NA	NA	NA
Metals	MAGNESIUM	Initial	ug/L	22700	NA	NA	NA	NA	NA	NA	NA
Metals	MANGANESE	Initial	ug/L	< 15 U	NA	NA	NA	NA	NA	NA	NA
Metals	NICKEL	Initial	ug/L	< 40 U	NA	NA	NA	NA	NA	NA	NA
Metals	POTASSIUM	Initial	ug/L	< 5000 U	NA	NA	NA	NA	NA	NA	NA
Metals	Silica	Initial	ug/L	10200	NA	NA	NA	NA	NA	NA	NA
Metals	SODIUM	Initial	ug/L	13800	NA	NA	NA	NA	NA	NA	NA
Metals	STRONTIUM	Initial	ug/L	62.1	NA	NA	NA	NA	NA	NA	NA
Metals	ZINC	Initial	ug/L	< 20 U	NA	NA	NA	NA	NA	NA	NA
Other	Ammonia	Initial	mg/L	< 2 U	NA	NA	NA	NA	NA	NA	NA
Other	Biocarbonate Alkalinity	Initial	mg/L	178	NA	NA	NA	NA	NA	NA	NA
Other	Bromide	Initial	mg/L	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
Other	Carbonate Alkalinity	Initial	mg/L	< 5 U	NA	NA	NA	NA	NA	NA	NA
Other	CHLORIDE	Initial	mg/L	14.4	NA	NA	NA	NA	NA	NA	NA
Other	Dissolved ortho-Phosphate	Re-extract	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Other	Dissolved ortho-Phosphate	Initial	mg/L	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
Other	FLUORIDE	Initial	mg/L	< 1 U	NA	NA	NA	NA	NA	NA	NA
Other	Nitrate-N	Initial	mg/L	1.6	NA	NA	NA	NA	NA	NA	NA
Other	Nitrite-N	Initial	mg/L	< 0.1 U	NA	NA	NA	NA	NA	NA	NA
Other	Phosphorus	Initial	mg/L	< 0.1 U	NA	NA	NA	NA	NA	NA	NA
Other	Sulfate	Initial	mg/L	12.8	NA	NA	NA	NA	NA	NA	NA

Preliminary Phase 1 Site Characterization Summary

TRW Automotive U.S. LLC
Oak Grove Village Well Superfund Site - OU 2
City of Sullivan Landfill



Table 5-3. Spring and Surface Water Inorganic Analytical Results

Chemical Name	Test Type	Location ID	SW-FC03	SW-LJ01	SW-LJ01	SW-LJ02	SW-LJ03	SW-LJ03	SW-TC01
		Sample ID	SW-FC03-	SW-LJ01-	SW-LJ01-	SW-LJ02-	SW-LJ03-	SW-LJ03-	SW-TC01-
		Sample Date	20101014-1045	201005270800	20101013-0800	201005270850	201005270920	20101013-0930	201005261740
		Unit	10/14/2010	5/27/2010	10/13/2010	5/27/2010	5/27/2010	10/13/2010	5/26/2010
Metals BARIUM	Initial	ug/L	NA	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	NA
Metals BORON	Initial	ug/L	NA	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	NA
Metals CALCIUM	Initial	ug/L	NA	30300	38900	29500	30000	43100	NA
Metals CHROMIUM	Initial	ug/L	NA	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	NA
Metals IRON	Initial	ug/L	NA	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA
Metals LEAD	Initial	ug/L	NA	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	NA
Metals LITHIUM	Initial	ug/L	NA	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	NA
Metals MAGNESIUM	Initial	ug/L	NA	16900	21800	16700	16600	24500	NA
Metals MANGANESE	Initial	ug/L	NA	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	NA
Metals NICKEL	Initial	ug/L	NA	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	NA
Metals POTASSIUM	Initial	ug/L	NA	< 5000 U	< 5000 UE	< 5000 U	< 5000 U	< 5000 U	NA
Metals Silica	Initial	ug/L	NA	10100	10000	11500	10100	10300	NA
Metals SODIUM	Initial	ug/L	NA	8800	13200	< 5000 U	8860	13700	NA
Metals STRONTIUM	Initial	ug/L	NA	54.6	58.4	56.2	54.1	62.1	NA
Metals ZINC	Initial	ug/L	NA	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	NA
Other Ammonia	Initial	mg/L	NA	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	NA
Other Bicarbonate Alkalinity	Initial	mg/L	NA	139	188	144	140	179	NA
Other Bromide	Initial	mg/L	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA
Other Carbonate Alkalinity	Initial	mg/L	NA	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	NA
Other CHLORIDE	Initial	mg/L	NA	10.1	15.9	< 1 U	10.3	13.5	NA
Other Dissolved ortho-Phosphate	Re-extract	mg/L	NA	0.6	NA	1.5	1	NA	NA
Other Dissolved ortho-Phosphate	Initial	mg/L	NA	< 0.5 U	< 0.5 U	1.1	0.7	1.6	NA
Other FLUORIDE	Initial	mg/L	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	NA
Other Nitrate-N	Initial	mg/L	NA	0.9	1.6	0.1	0.9	1.5	NA
Other Nitrite-N	Initial	mg/L	NA	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	NA
Other Phosphorus	Initial	mg/L	NA	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	NA
Other Sulfate	Initial	mg/L	NA	9.1	12.9	6.5	9.3	12.3	NA

Preliminary Phase 1 Site Characterization Summary

TRW Automotive U.S. LLC
Oak Grove Village Well Superfund Site - OU 2
City of Sullivan Landfill



Table 5-3. Spring and Surface Water Inorganic Analytical Results

		Location ID		SW-TC01
		Sample ID		SW-TC01-
		Sample Date		20101013-1630
		Unit		10/13/2010
Chemical Name	Test Type			
Metals BARIUM	Initial	ug/L	NA	
Metals BORON	Initial	ug/L	NA	
Metals CALCIUM	Initial	ug/L	NA	
Metals CHROMIUM	Initial	ug/L	NA	
Metals IRON	Initial	ug/L	NA	
Metals LEAD	Initial	ug/L	NA	
Metals LITHIUM	Initial	ug/L	NA	
Metals MAGNESIUM	Initial	ug/L	NA	
Metals MANGANESE	Initial	ug/L	NA	
Metals NICKEL	Initial	ug/L	NA	
Metals POTASSIUM	Initial	ug/L	NA	
Metals Silica	Initial	ug/L	NA	
Metals SODIUM	Initial	ug/L	NA	
Metals STRONTIUM	Initial	ug/L	NA	
Metals ZINC	Initial	ug/L	NA	
Other Ammonia	Initial	mg/L	NA	
Other Bicarbonate Alkalinity	Initial	mg/L	NA	
Other Bromide	Initial	mg/L	NA	
Other Carbonate Alkalinity	Initial	mg/L	NA	
Other CHLORIDE	Initial	mg/L	NA	
Other Dissolved ortho-Phosphate	Re-extract	mg/L	NA	
Other Dissolved ortho-Phosphate	Initial	mg/L	NA	
Other FLUORIDE	Initial	mg/L	NA	
Other Nitrate-N	Initial	mg/L	NA	
Other Nitrite-N	Initial	mg/L	NA	
Other Phosphorus	Initial	mg/L	NA	
Other Sulfate	Initial	mg/L	NA	

Table 5-4. Borehole Cuttings Slurry Samples Screening Analytical Results

	Location ID	MW-107	MW-107	MW-107	MW-108*	MW-108	MW-108*	MW-108*	POTABLE
	Sample Depth (ft bgs)	16	97	185	26	80	141	185	
	Sample Type:	slurry	slurry	slurry	slurry	slurry	slurry	slurry	
		MW-107BH@16'	MW-107BH@97'	MW-107BH@185'	MW-108BH@26'	MW-108BA@80'	MW-108BH@141'	MW-108BH@185'	MW-3
	Sample ID	(20110426)	(20110516)	(20110617)	20101112	20101119	20101201	20101215	POTABLE-20101118
	Sample Date	4/26/2011	5/16/2011	6/17/2011	11/12/2010	11/19/2010	12/1/2010	12/15/2010	11/18/2010
VOCs (ug/L)									
1,1,1,2-TETRACHLOROETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,1-TRICHLOROETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2,2-TETRACHLOROETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2-TRICHLOROETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-DICHLOROETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	1.8	< 1 U	< 1 U
1,1-DICHLOROETHENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-DICHLOROPROPENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-TRICHLOROBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-TRICHLOROPROPANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,4-TRICHLOROBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,4-TRIMETHYLBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DIBROMOETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROPROPANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3,5-TRIMETHYLBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3-DICHLOROBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3-DICHLOROPROPANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
1,4-DICHLOROBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
2,2-DICHLOROPROPANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
2-CHLOROTOLUENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
2-PHENYLBUTANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
4-CHLOROTOLUENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
BENZENE	< 1 U	< 170 U	0.28 J	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMODICHLOROMETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOFORM	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOMETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CARBON TETRACHLORIDE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROBROMOMETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROFORM	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROMETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CIS-1,2-DICHLOROETHENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CIS-1,3-DICHLOROPROPENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
CYMENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
DIBROMOCHLOROMETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
DIBROMOMETHANE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
Freon-12 (DICHLORODIFLUOROMETHANE)	< 1 U	< 170 U	1.7	< 18 U	< 10 U	< 1 U	2.0	< 1 U	< 1 U
Freon-21 (DICHLOROMONOFLUOROMETHANE)	2.2	1600	37	< 36 U	31	< 2 U	33	< 2 U	< 2 U
ETHYLBENZENE	< 1 U	< 170 U	< 1.4 U	20	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
HEXACHLORO-1,3-BUTADIENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
ISOPROPYLBENZENE (Cumene)	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
M/P XYLENE	< 2 U	< 330 U	< 2.9 U	72	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U
METHYLENE CHLORIDE	< 1 U	3500	< 1.4 U	43	38	< 1 U	< 1 U	< 1 U	< 1 U
NAPHTHALENE	0.47 JB	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
N-BUTYL BENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
N-PROPYL BENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
O-XYLENE	< 1 U	< 170 U	< 1.4 U	20	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
STYRENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
TERT-BUTYLBENZENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
TETRACHLOROETHENE	< 1 U	< 170 U	0.49 J	< 18 U	< 10 U	< 1 U	1.0	< 1 U	< 1 U
TOLUENE	0.36 J	300	1.6	580	< 10 U	< 1 U	1.6	< 1 U	< 1 U
TRANS-1,2-DICHLOROETHENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
TRANS-1,3-DICHLOROPROPENE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U
TRICHLOROETHENE	< 1 U	< 170 U	2.6	< 18 U	< 10 U	< 1 U	1.1	< 1 U	< 1 U
Freon-11 (TRICHLOROFLUOROMETHANE)	< 1 U	300	37 *	< 18 U	< 10 U	< 1 U	6.4	< 1 U	< 1 U
VINYL CHLORIDE	< 1 U	< 170 U	< 1.4 U	< 18 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U

Notes:

Slurry sample type: mixed grab sample of rock/soil cuttings and potable drilling water; submitted as water analysis.

* Location MW-108 originally named MW-3; nomenclature changed to avoid confusion with well names in OU1.

ug/L Micrograms per liter

J Estimated value

B Analyte detected in Blank

U Not detected above reporting limit

Table 5-5 Open Borehole Screening Groundwater Sample VOC Results

Location ID	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107
Sample Depth (ft bgs)	220	280	340	340	360	390
Open Borehold Interval (ft bgs)	186-235	186-295	186-355	186-410	186-410	186-410
Sample Type:	purge and sample	purge and sample	purge and sample	point grab	point grab	point grab
Sample ID	MW-107BH@235'(20110711)	MW-107BH@295'(20110817)	MW-107BH@355'(20110822)	MW-107BH@340'(20111005)	MW-107BH@360'(20111005)	MW-107BH@390'(20111005)
Sample Date	7/11/2011	8/17/2011	8/22/2011	10/5/2011	10/5/2011	10/5/2011
VOCs (ug/L)						
1,1,1,2-TETRACHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,1-TRICHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2,2-TETRACHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2-TRICHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-DICHLOROETHANE	0.19 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-DICHLOROETHENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-DICHLOROPROPENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-TRICHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.55 JB
1,2,3-TRICHLOROPROPANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,4-TRICHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.27 JB
1,2,4-TRIMETHYLBENZENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DIBROMOETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROETHENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROPROPANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3,5-TRIMETHYLBENZENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3-DICHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3-DICHLOROPROPANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,4-DICHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2,2-DICHLOROPROPANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2-CHLOROTOLUENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2-PHENYLBUTANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
4-CHLOROTOLUENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BENZENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOBENZENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMODICHLOROMETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOFORM	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOMETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CARBON TETRACHLORIDE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROBROMOMETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROFORM	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROMETHANE	< 1 U	0.37 J	0.31 J	< 1 U	< 1 U	< 1 U
CIS-1,2-DICHLOROETHENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CIS-1,3-DICHLOROPROPENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CYMENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
DIBROMOCHLOROMETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
DIBROMOMETHANE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Freon-12 (DICHLORODIFLUOROMETHANE)	1.1	1.2	1.0	0.48 J	0.46 J	0.36 J
Freon-21 (DICHLOROMONOFUOROMETHANE)	22	32	18	18	15	15
ETHYLBENZENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
HEXACHLORO-1,3-BUTADIENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.31 JB
ISOPROPYLBENZENE (Cumene)	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
M/P XYLENE	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
METHYLENE CHLORIDE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
NAPHTHALENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.52 JB
N-BUTYL BENZENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
N-PROPYL BENZENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
O-XYLENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
STYRENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
TERT-BUTYLBENZENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
TETRACHLOROETHANE	0.40 J	0.38 J	0.30 J	< 1 U	< 1 U	< 1 U
TOLUENE	2.1	3.0	0.95 J	< 1 U	< 1 U	< 1 U
TRANS-1,2-DICHLOROETHENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
TRANS-1,3-DICHLOROPROPENE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
TRICHLOROETHENE	2.0	3.2	1.7	1.4	1.2	1.2
Freon-11 (TRICHLOROFLUOROMETHANE)	32	30	23	13	10	8.8
VINYL CHLORIDE	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

Notes

J Estimated value
 B Analyte detected in Blank
 U Not detected above reporting limit

NA Not Analyzed
 ug/L Milligrams per liter

Table 5-5 Open Borehole Screening Groundwater Sample VOC Results

Location ID	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108
Sample Depth (ft bgs)	195	210	220	262	313	340	370	390	
Open Borehole Interval (ft bgs)	186-195	186-210	186-235	186-295	186-355	186-420	186-420	186-420	
Sample Type:	grab	grab	purge and sample	purge and sample	purge and sample	point grab	point grab	point grab	
Sample ID	MW-108BH@195(20110105)	MW-108BH@210(20110106)	MW108(187-235)(20110316)	MW-108BH@295(20110829)	MW-108BH@355(20110831)	MW-108BH@340(20111005)	MW-108BH@370(20111005)	MW-108BH@390(20111005)	
Sample Date	1/5/2011	1/6/2011	3/16/2011	8/29/2011	8/31/2011	10/5/2011	10/5/2011	10/5/2011	
VOCs (ug/L)									
1,1,1,2-TETRACHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,1,1-TRICHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	0.24 J	0.28 J	0.23 J	
1,1,2,2-TETRACHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,1,2-TRICHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,1-DICHLOROETHANE	< 1 U	1.2	1.4 J	1.3	0.92 J	2.1	2.5	2.3	
1,1-DICHLOROETHENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,1-DICHLOROPROPENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2,3-TRICHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2,3-TRICHLOROPROPANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2,4-TRICHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2,4-TRIMETHYLBENZENE	< 1 U	< 1 U	1.0 JB	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2-DIBROMOETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2-DICHLOROETHENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2-DICHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2-DICHLOROPROPANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,3,5-TRIMETHYLBENZENE	< 1 U	< 1 U	0.92 JB	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,3-DICHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,3-DICHLOROPROPANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,4-DICHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
2,2-DICHLOROPROPANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
2-CHLOROTOLUENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
2-PHENYLBUTANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
4-CHLOROTOLUENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
BENZENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
BROMOBENZENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
BROMODICHLOROMETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
BROMOFORM	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
BROMOMETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
CARBON TETRACHLORIDE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
CHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
CHLOROBROMOMETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
CHLOROETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
CHLOROFORM	< 1 U	< 1 U	< 2 U	0.20 J	0.19 J	0.48 J	0.50 J	0.50 J	
CHLOROMETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
CIS-1,2-DICHLOROETHENE	< 1 U	< 1 U	0.51 J	0.59 J	0.56 J	0.66 J	0.82 J	0.70 J	
CIS-1,3-DICHLOROPROPENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
CYMENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
DIBROMOCHLOROMETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
DIBROMOMETHANE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Freon-12 (DICHLORODIFLUOROMETHANE)	< 1 U	< 1 U	0.83 J	2.8	2.7	2.1	1.7	1.5	
Freon-21 (DICHLOROMONOFUOROMETHANE)	26	39	65	68	50	79	90	100	
ETHYLBENZENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
HEXACHLORO-1,3-BUTADIENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
ISOPROPYLBENZENE (Cumene)	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
M/P XYLENE	< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	
METHYLENE CHLORIDE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
NAPHTHALENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
N-BUTYL BENZENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
N-PROPYL BENZENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
O-XYLENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
STYRENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
TERT-BUTYLBENZENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
TETRACHLOROETHANE	< 1 U	< 1 U	0.91 J	0.80 J	0.65 J	0.98 J	1.2	1.2	
TOLUENE	< 1 U	< 1 U	3.5	2.9	3.0	< 1 U	< 1 U	< 1 U	
TRANS-1,2-DICHLOROETHENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
TRANS-1,3-DICHLOROPROPENE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
TRICHLOROETHENE	< 1 U	1.1	1.7 J	2.0	2.3	2.8	3.3	3.1	
Freon-11 (TRICHLOROFLUOROMETHANE)	4.7	5.8	14	25	27	26	30	27	
VINYL CHLORIDE	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	

Notes

J	Estimated value	NA	Not Analyzed
B	Analyte detected in Blank	ug/L	Milligrams per liter
U	Not detected above reporting limit		

Table 5-6 Open Borehole Screening Groundwater Sample Inorganic Results

Location ID	MW-107	MW-107	MW-107	MW-108	MW-108	MW-108
Sample Depth (ft bgs)	220	280	340	220	262	313
Open Borehold Interval (ft bgs)	186-235	186-295	186-355	186-235	186-295	186-355
Sample Type:	purge and sample	purge and sample	purge and sample	purge and sample	purge and sample	purge and sample
Sample ID	MW-107BH@235'(20110711)	MW-107BH@295'(20110817)	MW-107BH@355'(20110822)	MW-108(187-235)(20110316)	MW-108BH@295'(20110829)	MW-108BH@355'(20110831)
Sample Date	7/11/2011	8/17/2011	8/22/2011	3/16/2011	8/29/2011	8/31/2011
Metals						
BARIUM	ug/L	49 JB	51 JB	130 JB	184 B	120 JB
BORON	ug/L	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
CALCIUM	ug/L	50000 B	53000 B	46000 B	77800 J	67000 B
CHROMIUM	ug/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
IRON	ug/L	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	ug/L	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U
LITHIUM	ug/L	5.1 J	< 50 U	< 50 U	3.5 B	< 50 U
MAGNESIUM	ug/L	33000	34000	27000 B	42400	37000 B
MANGANESE	ug/L	17	3.5 JB	4.3 JB	218	92
NICKEL	ug/L	< 40 U	< 40 U	4.7 J	6.7 B	9.7 J
POTASSIUM	ug/L	2100 JB	1500 JB	1200 JB	2720 BJ	2100 JB
Silica	ug/L	9800	9200	8700	12500	12000
SODIUM	ug/L	4600 J	5700	3300 J	7000	6000
STRONTIUM	ug/L	56	61 B	46 B	102 J	98
ZINC	ug/L	< 20 U	11 JB	7.2 JB	74.4 J	470 B
Other						
Ammonia	mg/L	NA	0.11 J	0.036 J	< 2 U	0.16 J
Biocarbonate Alkalinity	mg/L	240	250	210	357	310
Bromide	mg/L	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.11 J
Carbonate Alkalinity	mg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	mg/L	6.6	6.1	2.4	10.2	10
Dissolved ortho-Phosphate	mg/L	0.58 H	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
FLUORIDE	mg/L	0.077 J	0.064 J	0.060 J	0.030 B	0.036 J
Nitrate-N	mg/L	0.52 H	0.42	0.31	0.26	0.38
Nitrite-N	mg/L	< 0.1 UH	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Phosphorus	mg/L	0.033 J	0.035 J	< 0.1 U	< 0.1 U	0.042 J
Sulfate	mg/L	9.8	7.2	10	11.7	14

Notes

NA Not Analyzed

ug/L Micrograms per liter

mg/L Milligrams per liter

B < CRDL but >= Instrument Detection Limit (IDL).

H Sample was analyzed beyond the specified hold time

J Estimated value.

U Analyte was analyzed for but not detected.



Table 5-7. Groundwater Sampling VOC Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	MW-001 MW-1 (20120313) 3/13/2012	MW-001 MW-1(20120621) 6/21/2012	MW-001 MW-1(09122012) 9/12/2012	MW-001 MW-1(20121213) 12/13/2012	MW-001A MW-1A(20120314) 3/14/2012	MW-001A MW-1A(20120622) 6/21/2012	MW-001A DUP-01(09122012) 9/12/2012	MW-001A MW-1A(09122012) 9/12/2012	MW-001A MW-1A(20121213) 12/13/2012	MW-101 MW101(20120307) 3/7/2012	MW-101 MW-101(20120622) 6/22/2012	MW-101 MW-101(09132012) 9/13/2012	MW-101 MW-101(20121210) 12/11/2012	MW-101 MW-101(20121213) 12/13/2012
1,1,1,2-TETRACHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,1,1-TRICHLOROETHANE	200	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,1,2,2-TETRACHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,1,2-TRICHLOROETHANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,1-DICHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	0.65 J*	0.58 J	0.56 J	0.43 J	0.37 J	0.32 J*	<1 U	0.33 J	NA
1,1-DICHLOROETHENE	7	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,1-DICHLOROPROPENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,2,3-TRICHLOROBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U	NA
1,2,3-TRICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,2,4-TRICHLOROBENZENE	70	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,2,4-TRIMETHYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,2-DIBROMOETHANE	0.05	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,2-DICHLOROBENZENE	600	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,2-DICHLOROETHANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,2-DICHLOROPROPANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,3,5-TRIMETHYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,3-DICHLOROBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,3-DICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
1,4-DICHLOROBENZENE	75	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
2,2-DICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
2-CHLOROTOLUENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
2-Phenylbutane	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
4-CHLOROTOLUENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
BENZENE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
BROMOBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
BROMODICHLROMETHANE	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
BROMOFORM	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
BROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
CARBON TETRACHLORIDE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
CHLOROBENZENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
CHLOROBROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
CHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
CHLOROFORM	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
CHLOROMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
CIS-1,2-DICHLOROETHENE	70	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	0.55 J	0.49 J	0.45 J	0.39 J	0.58 J	0.73 J	0.78 J	0.65 J	NA
CIS-1,3-DICHLOROPROPENE	--	ug/l	<1 U*	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
CYMENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
DIBROMOCHLROMETHANE	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
DIBROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
Freon-12 (DICHLORODIFLUOROMETHANE)	--	ug/l	<1 U	<1 U	<1 U	<1 U	0.47 J	0.75 J	0.71 J	0.77 J	0.51 J	2.5	2.8	2.7	3	NA
Freon-21 (DICHLOROMONOFUOROMETHANE)	--	ug/l	<2 U	<2 U	<2 U	<2 U	17	23	16	16	15	24	20	24	21	NA
ETHYLBENZENE	700	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
HEXACHLORO-1,3-BUTADIENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
ISOPROPYLBENZENE (Cumene)	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
M/P XYLENE	--	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	NA
METHYLENE CHLORIDE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
NAPHTHALENE	--	ug/l	0.28 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
N-BUTYL BENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
N-PROPYL BENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
O-XYLENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
STYRENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
TERT-BUTYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
Tetrachloroethene	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.30 J	<1 U	<1 U	<1 U	0.33 J	0.33 J	0.32 J	NA
TOLUENE	1000	ug/l	0.24 J	<1 U	<1 U	<1 U	2.9	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
TRANS-1,2-DICHLOROETHENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
TRANS-1,3-DICHLOROPROPENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA
TRICHLOROETHENE	5	ug/l	<1 U	<1 U	<1 U	<1 U	0.73 J	0.88 J	0.82 J	0.82 J	0.74 J	2.2	1.8	2.6	2.3	NA
Freon-11 (TRICHLOROFLUOROMETHANE)	--	ug/l	<1 U	<1 U	<1 U	<1 U	4.5	5	6.5	6.4	3.4	22	18	28	21	NA
VINYL CHLORIDE	2	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	NA

NA Not Analyzed
ug/L Micrograms per liter
J Estimated value
B Analyte detected in Blank
* LCS or LCSD exceeds the control limits
U Not detected above reporting limit



Table 5-7. Groundwater Sampling VOC Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	MW-102A MW 102A(20120306) 3/6/2012	MW-102A MW-102A(20120622) 6/22/2012	MW-102A MW-102A(09112012) 9/11/2012	MW-102A MW-102A(20121213) 12/14/2012	MW-102B MW102B(20120306) 3/6/2012	MW-102B MW-102B(20120620) 6/20/2012	MW-102B MW-102B(09112012) 9/11/2012	MW-102B MW-102B(20121213) 12/14/2012	MW-103 MW103(20120308) 3/8/2012	MW-103 MW-103(20120619) 6/19/2012	MW-103 MW-103(09102012) 9/10/2012	MW-103 MW-103(20121212) 12/12/2012	MW-104 MW-104(20120309) 3/9/2012	MW-104 MW-104(20120620) 6/20/2012	MW-104 MW-104(09132012) 9/13/2012
1,1,1,2-TETRACHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,1,1-TRICHLOROETHANE	200	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	1	0.83 J	0.94 J	0.69 J	0.22 J	<1 U	<1 U
1,1,2,2-TETRACHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,1,2-TRICHLOROETHANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,1-DICHLOROETHANE	--	ug/l	1.4	1.3	1.4	1.4	0.96 J	0.74 J	0.95 J	0.81 J	1.6	1.2	1.6	1.5	0.78 J	0.78 J	0.98 J
1,1-DICHLOROETHENE	7	ug/l	0.22 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.67 J	0.54 J	0.38 J	0.59 J	<1 U	<1 U	<1 U
1,1-DICHLOROPROPENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2,3-TRICHLOROBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U*	<1 U
1,2,3-TRICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2,4-TRICHLOROBENZENE	70	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2,4-TRIMETHYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2-DIBROMOETHANE	0.05	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROBENZENE	600	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROETHANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3,5-TRIMETHYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3-DICHLOROBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3-DICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,4-DICHLOROBENZENE	75	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
2,2-DICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
2-CHLOROTOLUENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
2-Phenylbutane	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
4-CHLOROTOLUENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BENZENE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BROMOBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BROMODICHLOROMETHANE	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BROMOFORM	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CARBON TETRACHLORIDE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CHLOROENZENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CHLOROBROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CHLOROFORM	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.48 J	<1 U	<1 U	<1 U	0.32 J	0.19 J	<1 U
CHLOROMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CIS-1,2-DICHLOROETHENE	70	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.36 J
CIS-1,3-DICHLOROPROPENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CYMENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
DIBROMOCHLOROMETHANE	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
DIBROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U*	<1 U
Freon-12 (DICHLORODIFLUOROMETHANE)	--	ug/l	1.6	1.5	1.1	1.6	1.5	0.91 J	0.97 J	1.2	5.9	10 *	6.2	4.2	3.2	4.8 *	1.3
Freon-21 (DICHLOROMONOFUOROMETHANE)	--	ug/l	21	17	17	19	27	18	19	19	150	130	150	130	51	71	53
ETHYLBENZENE	700	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
HEXACHLORO-1,3-BUTADIENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
ISOPROPYLBENZENE (Cumene)	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
M/P XYLENE	--	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
METHYLENE CHLORIDE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
NAPHTHALENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
N-BUTYL BENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
N-PROPYL BENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
O-XYLENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
STYRENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
TERT-BUTYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Tetrachloroethene	5	ug/l	<1 U	<1 U	<1 U	<1 U	0.37 J	<1 U	0.35 J	0.31 J	1.3	1.2	1.8	1.2	0.60 J	0.42 J	0.76 J
TOLUENE	1000	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.15 J	<1 U	<1 U
TRANS-1,2-DICHLOROETHENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
TRANS-1,3-DICHLOROPROPENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
TRICHLOROETHENE	5	ug/l	0.77 J	0.81 J	0.84 J	0.79 J	0.52 J	0.41 J	0.50 J	0.42 J	0.77 J	0.69 J	1	0.91 J	3.5	3.1	3.3
Freon-11 (TRICHLOROFLUOROMETHANE)	--	ug/l	11	9.4	7.3	9.1	12	5.7	7.8	5.9	130	130	160	88	34	39	26
VINYL CHLORIDE	2	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U

NA Not Analyzed
ug/L Micrograms per liter
J Estimated value
B Analyte detected in Blank
* LCS or LCSD exceeds the control limits
U Not detected above reporting limit



Table 5-7. Groundwater Sampling VOC Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date	MW-105 MW105(20120307) 3/7/2012	MW-105 DUP-1 (20120619) 6/19/2012	MW-105 MW-105 (20120619) 6/19/2012	MW-105 MW-105(09132012) 9/13/2012	MW-105 MW-105(20121210) 12/10/2012	MW-107D MW107D(20120305) 3/5/2012	MW-107D MW-107D (20120618) 6/18/2012	MW-107D MW-107D(09112012) 9/11/2012	MW-107D MW-107D(121212) 12/12/2012	MW-107S DUP(20120305) 3/5/2012	MW-107S W107S(2012030 3/5/2012	MW-107S MW-107S (20120619) 6/19/2012	MW-107S MW-107S(09112012) 9/11/2012	MW-107S MW-107S(121212) 12/12/2012	MW-107S MW-107S(20121214) 12/14/2012
1,1,1,2-TETRACHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,1,1-TRICHLOROETHANE	200	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.25 J	0.24 J	<1 U	<1 U	0.24 J
1,1,2,2-TETRACHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U	<1 U
1,1,2-TRICHLOROETHANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U	<1 U
1,1-DICHLOROETHANE	--	ug/l	2.9	2.8	2.8	3.2	2.5	<1 U	<1 U	<1 U	<1 U	<1 U	0.52 J	0.50 J	0.53 J	0.37 J	0.59 J
1,1-DICHLOROETHENE	7	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.24 J	0.20 J	<1 U	<1 U	<1 U
1,1-DICHLOROPROPENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2,3-TRICHLOROENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	0.19 JB	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.33 JB
1,2,3-TRICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U	<1 U
1,2,4-TRICHLOROBENZENE	70	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2,4-TRIMETHYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2-DIBROMOETHANE	0.05	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROBENZENE	600	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROETHANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3,5-TRIMETHYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3-DICHLOROBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3-DICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U	<1 U
1,4-DICHLOROBENZENE	75	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
2,2-DICHLOROPROPANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
2-CHLOROTOLUENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
2-Phenylbutane	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
4-CHLOROTOLUENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BENZENE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BROMOBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BROMODICHLROMETHANE	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BROMOFORM	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
BROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CARBON TETRACHLORIDE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CHLOROBENZENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CHLOROBROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CHLOROETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CHLOROFORM	80	ug/l	0.24 J	0.25 J	0.26 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.28 J	0.24 J	0.18 J	<1 U	<1 U
CHLOROMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CIS-1,2-DICHLOROETHENE	70	ug/l	0.28 J	<1 U	<1 U	<1 U	0.23 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.40 J
CIS-1,3-DICHLOROPROPENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
CYMENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
DIBROMOCHLROMETHANE	80	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
DIBROMOMETHANE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Freon-12 (DICHLORODIFLUOROMETHANE)	--	ug/l	1.7	1.2	1.4	1.7	2.1	0.34 J	<1 U	<1 U	<1 U	<1 U	3.2	3.1	2.1	1.4	2.4
Freon-21 (DICHLOROMONOFUOROMETHANE)	--	ug/l	45	35	40	37	38	7.2	2.7	2.4	1.1 J	65	67	54	38	56	57
ETHYLBENZENE	700	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
HEXACHLORO-1,3-BUTADIENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
ISOPROPYLBENZENE (Cumene)	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
M/P XYLENE	--	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
METHYLENE CHLORIDE	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.35 JB	<1 U	<1 U	<1 U	<1 U	<1 U
NAPHTHALENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	0.48 JB	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.54 JB	<1 U
N-BUTYL BENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
N-PROPYL BENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U*	<1 U	<1 U	<1 U	<1 U	<1 U
O-XYLENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
STYRENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
TERT-BUTYLBENZENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Tetrachloroethene	5	ug/l	0.42 J	0.29 J	0.37 J	0.43 J	0.47 J	<1 U	<1 U	<1 U	<1 U	0.41 J	0.42 J	0.41 J	0.50 J	0.44 J	0.71 J
TOLUENE	1000	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.25 J	0.24 J	<1 U	<1 U	<1 U	<1 U
TRANS-1,2-DICHLOROETHENE	100	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
TRANS-1,3-DICHLOROPROPENE	--	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
TRICHLOROETHENE	5	ug/l	1.1	1.1	1	1.3	1.1	0.49 J	0.23 J	<1 U	<1 U	3	2.8	2.7	2.5	3.2	1.1
Freon-11 (TRICHLOROFLUOROMETHANE)	--	ug/l	8.4	6.9	7.6	11	7.8	7.7	3	3.7	1.2	58	55	46	36	39	10
VINYL CHLORIDE	2	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U

NA Not Analyzed
ug/L Micrograms per liter
J Estimated value
B Analyte detected in Blank
* LCS or LCSD exceeds the control limits
U Not detected above reporting limit



Table 5-7. Groundwater Sampling VOC Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	MW-108D MW108D(20120306) 3/6/2012	MW-108D MW-108D(20120620) 6/20/2012	MW-108D MW-108D(09102012) 9/10/2012	MW-108D MW-108D(121212) 12/12/2012	MW-108S MW108S(20120306) 3/6/2012	MW-108S MW-108S(20120620) 6/20/2012	MW-108S MW-108S(09112012) 9/11/2012	VOSS VOSS(20120309) 3/9/2012	VOSS VOSSWELL(20120621) 6/21/2012	VOSS VOSS WELL(09122012) 9/12/2012	VOSS DUP-01(20121213) 12/13/2012	VOSS VOSS WELL(20121213) 12/13/2012
1,1,1,2-TETRACHLOROETHANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,1-TRICHLOROETHANE	200	ug/l	0.22 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.29 J	0.33 J	0.35 J	0.28 J	0.27 J
1,1,2,2-TETRACHLOROETHANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2-TRICHLOROETHANE	5	ug/l	< 1 U	< 1 U	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-DICHLOROETHANE	--	ug/l	1.8	1.1	0.92 J	0.94 J	1.6	1.2	2.1	2.5	2.9	2.9	2.4	2.5
1,1-DICHLOROETHENE	7	ug/l	0.20 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.27 J	< 1 U	0.30 J	0.28 J	0.32 J
1,1-DICHLOROPROPENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-TRICHLOROBENZENE	--	ug/l	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U*	< 1 U*	< 1 U*
1,2,3-TRICHLOROPROPANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,4-TRICHLOROBENZENE	70	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,4-TRIMETHYLBENZENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DIBROMOETHANE	0.05	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROBENZENE	600	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROETHANE	5	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-DICHLOROPROPANE	5	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3,5-TRIMETHYLBENZENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3-DICHLOROBENZENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3-DICHLOROPROPANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,4-DICHLOROBENZENE	75	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2,2-DICHLOROPROPANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2-CHLOROTOLUENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2-Phenylbutane	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
4-CHLOROTOLUENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BENZENE	5	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOBENZENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMODICHLOROMETHANE	80	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOFORM	80	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
BROMOMETHANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CARBON TETRACHLORIDE	5	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROBENZENE	100	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROBROMOMETHANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROETHANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROFORM	80	ug/l	0.34 J	< 1 U	< 1 U	< 1 U	0.33 J	< 1 U	< 1 U	0.32 J	< 1 U	< 1 U	< 1 U	< 1 U
CHLOROMETHANE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CIS-1,2-DICHLOROETHENE	70	ug/l	0.58 J	< 1 U	0.38 J	0.38 J	0.59 J	0.45 J	0.78 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CIS-1,3-DICHLOROPROPENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
CYMENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
DIBROMOCHLOROMETHANE	80	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
DIBROMOMETHANE	--	ug/l	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Freon-12 (DICHLORODIFLUOROMETHANE)	--	ug/l	3.1	3.7 *	1.7	3.1	1.6	2.6 *	2.5	3.1	3.7	4.3	5.2	4.1
Freon-21 (DICHLOROMONOFUOROMETHANE)	--	ug/l	96	58	42	35	71	59	74	68	91	79	78	77
ETHYLBENZENE	700	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
HEXACHLORO-1,3-BUTADIENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
ISOPROPYLBENZENE (Cumene)	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
M/P XYLENE	--	ug/l	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
METHYLENE CHLORIDE	5	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.51 JB	< 1 U
NAPHTHALENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
N-BUTYL BENZENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
N-PROPYL BENZENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U*	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
O-XYLENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
STYRENE	100	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
TERT-BUTYLBENZENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene	5	ug/l	0.89 J	0.63 J	0.61 J	0.38 J	0.57 J	0.64 J	0.98 J	0.76 J	0.91 J	0.81 J	0.88 J	0.94 J
TOLUENE	1000	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	0.18 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
TRANS-1,2-DICHLOROETHENE	100	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
TRANS-1,3-DICHLOROPROPENE	--	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
TRICHLOROETHENE	5	ug/l	2.9	2.5	2.3	2.1	1.4	1.7	2.2	1.8	2	2	1.7	1.8
Freon-11 (TRICHLOROFLUOROMETHANE)	--	ug/l	38	32	23	20	10	12	31	40	43	62	46	39
VINYL CHLORIDE	2	ug/l	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

NA Not Analyzed
ug/L Micrograms per liter
J Estimated value
B Analyte detected in Blank
* LCS or LCSD exceeds the control limits
U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	MW-001 MW-1 (20120313) 3/13/2012	MW-001 MW-1(20120621) 6/21/2012	MW-001 MW-1(09122012) 9/12/2012	MW-001 MW-1(20121213) 12/13/2012	MW-001A MW-1A(20120314) 3/14/2012
Metals							
BARIUM	2000	ug/l	300 B	370	330	330	140 JB
BORON	--	ug/l	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
CALCIUM	--	ug/l	35000 B	35000	34000 B	36000	62000 B
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	< 50 U	< 50 U	< 50 U	13 J
MAGNESIUM	--	ug/l	21000 B	20000	23000	22000	33000 B
MANGANESE	--	ug/l	< 15 U	0.44 JB	0.42 J	< 15 U	1.0 JB
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U
POTASSIUM	--	ug/l	730 JB	450 J	790 J	740 J	2700 JB
SiO ₂ , Silica	--	ug/l	8900	9500	10000	9300	32000
SODIUM	--	ug/l	2200 J	2500 J	2600 J	2600 J	6500
STRONTIUM	--	ug/l	42 B	39	39	38 B	110 B
ZINC	--	ug/l	< 20 U	< 20 U	8.9 J	< 20 U	12 JB
Other							
Ammonia	--	mg/l	0.073 J	< 0.2 U	< 0.2 U	0.075 JB	0.17 J
Biocarbonate Alkalinity	--	mg/l	180	160	160	160	290
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	1.7 B	1.8	1.6	1.5	6.6
FLUORIDE	--	mg/l	0.056 J	0.045 J	0.065 J	0.049 J	0.056 J
Nitrate-N	10	mg/l	0.64	0.92	0.85	0.75	1.8
Nitrite-N	1	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Orthophosphate	--	mg/l	0.19 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	7.1	4.4	5.1	5.8	6.8

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID	MW-001A	MW-001A	MW-001A	MW-001A
		Sample ID Sample Date Unit	MW-1A(20120622) 6/21/2012	DUP-01(09122012) 9/12/2012	MW-1A(09122012) 9/12/2012	MW-1A(20121213) 12/13/2012
Metals						
BARIUM	2000	ug/l	120 J	120 J	110 J	110 J
BORON	--	ug/l	43 J	< 200 U	< 200 U	< 200 U
CALCIUM	--	ug/l	62000	65000	61000	64000
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	< 3 U	< 3 U	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	32000	34000	32000	35000
MANGANESE	--	ug/l	0.81 JB	0.58 JB	0.64 JB	0.71 J
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	< 40 U
POTASSIUM	--	ug/l	2700 J	3200 JB	3000 JB	2700 J
SiO ₂ , Silica	--	ug/l	11000	8700 B	11000 B	11000
SODIUM	--	ug/l	5600	5700	5300	5200
STRONTIUM	--	ug/l	91	94	96	94 B
ZINC	--	ug/l	5.5 J	12 J	7.5 J	7.0 J
Other						
Ammonia	--	mg/l	< 0.2 U	0.036 J	0.046 J	0.063 JB
Biocarbonate Alkalinity	--	mg/l	280	280	290	290
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	6.3	6.4	6.4	6.2
FLUORIDE	--	mg/l	0.042 J	0.046 J	0.050 J	0.036 J
Nitrate-N	10	mg/l	1.6 H	1.9 H	1.9 H	1.8
Nitrite-N	1	mg/l	< 0.1 UH	< 0.1 UH	< 0.1 UH	< 0.1 U
Orthophosphate	--	mg/l	< 0.5 UH	0.11 JH	0.15 JH	< 0.5 U
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	6.2	6.6	6.5	6

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	MW-101 MW101(20120307) 3/7/2012	MW-101 MW-101(20120622) 6/22/2012	MW-101 MW-101(09132012) 9/13/2012	MW-101 MW-101(20121210) 12/11/2012	MW-101 MW-101(20121213) 12/13/2012
Metals							
BARIUM	2000	ug/l	62 J	55 JB	58 J	NA	33 JB
BORON	--	ug/l	< 200 U	< 200 U	< 200 U	NA	< 200 U
CALCIUM	--	ug/l	58000	57000 B	61000	NA	57000 B
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	NA	< 5 U
IRON	--	ug/l	120	< 100 U	< 100 U	NA	< 100 U
LEAD	15	ug/l	< 3 U	< 3 U	< 3 U	NA	< 3 U
LITHIUM	--	ug/l	< 50 U	11 J	< 50 U	NA	4.0 JB
MAGNESIUM	--	ug/l	31000 B	32000 B	34000	NA	31000 B
MANGANESE	--	ug/l	< 15 U	< 15 U	0.98 J	NA	0.61 JB
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	NA	< 40 U
POTASSIUM	--	ug/l	1500 JB	1900 J	1500 J	NA	1500 JB
SiO ₂ , Silica	--	ug/l	10000	9000 B	10000 B	NA	8300
SODIUM	--	ug/l	3900 J	4900 J	4400 J	NA	4300 J
STRONTIUM	--	ug/l	56 B	52 B	55	NA	55 B
ZINC	--	ug/l	35	27 JB	31	NA	42 JB
Other							
Ammonia	--	mg/l	0.12 JB	0.082 JB	< 0.2 U	NA	0.096 JB
Biocarbonate Alkalinity	--	mg/l	280	260	270	280	NA
Bromide	--	mg/l	< 0.5 U	0.088 J	0.085 J	NA	NA
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U	NA
CHLORIDE	--	mg/l	6.6	7.4	7.3	NA	NA
FLUORIDE	--	mg/l	0.028 J	0.043 J	0.042 J	NA	NA
Nitrate-N	10	mg/l	0.83 H	0.82 H	0.86	NA	NA
Nitrite-N	1	mg/l	< 0.1 UH	< 0.1 UH	< 0.1 U	NA	NA
Orthophosphate	--	mg/l	< 0.5 UH	0.19 JH	< 0.5 U	NA	NA
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	NA	< 0.1 U
Sulfate	--	mg/l	6.7	7.2	7.3	NA	NA

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID	MW-102A	MW-102A	MW-102A	MW-102A
		Sample ID Sample Date Unit	MW102A(20120306) 3/6/2012	MW-102A(20120622) 6/22/2012	MW-102A(09112012) 9/11/2012	MW-102A(20121213) 12/14/2012
Metals						
BARIUM	2000	ug/l	51 J	50 J	44 J	47 J
BORON	--	ug/l	< 200 U	< 200 U	< 200 U	< 200 U
CALCIUM	--	ug/l	40000	39000	38000 B	39000
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	< 3 U	< 3 U	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	1.8 JB	< 50 U	< 50 U
MAGNESIUM	--	ug/l	21000 B	21000	24000	22000
MANGANESE	--	ug/l	1.6 J	< 15 U	3.2 J	1.4 J
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	< 40 U
POTASSIUM	--	ug/l	1100 JB	830 J	1200 J	1100 J
SiO ₂ , Silica	--	ug/l	9400	10000	10000	9800
SODIUM	--	ug/l	2000 J	2800 J	2700 J	3100 J
STRONTIUM	--	ug/l	40 B	41	40	40 B
ZINC	--	ug/l	< 20 U	< 20 U	< 20 U	< 20 U
Other						
Ammonia	--	mg/l	0.18 JB	0.049 JB	< 0.2 U	0.054 JB
Biocarbonate Alkalinity	--	mg/l	170	160	160	160
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	5.1	5.3	5.2	5.3
FLUORIDE	--	mg/l	0.041 J	0.050 J	0.048 J	0.051 J
Nitrate-N	10	mg/l	1.3 H	1.2 H	1.3	1.3
Nitrite-N	1	mg/l	< 0.1 UH	< 0.1 UH	< 0.1 U	< 0.1 U
Orthophosphate	--	mg/l	< 0.5 UH	0.054 JH	< 0.5 U	< 0.5 U
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	0.080 J
Sulfate	--	mg/l	11	12	12	12

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID	MW-102B	MW-102B	MW-102B	MW-102B	MW-103
		Sample ID Sample Date Unit	MW102B(20120306) 3/6/2012	MW-102B(20120620) 6/20/2012	MW-102B(09112012) 9/11/2012	MW-102B(20121213) 12/14/2012	MW103(20120308) 3/8/2012
Metals							
BARIUM	2000	ug/l	82 J	81 J	80 J	78 J	69 JB
BORON	--	ug/l	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
CALCIUM	--	ug/l	55000	55000	58000 B	58000	42000 B
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	2.5 J	2.2 J	< 3 U	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	28000 B	30000	37000	33000	23000 B
MANGANESE	--	ug/l	< 15 U	< 15 U	2.7 J	0.94 J	0.87 JB
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U
POTASSIUM	--	ug/l	2400 JB	2400 J	3000 J	2600 J	960 JB
SiO ₂ , Silica	--	ug/l	13000	14000	15000	10000	10000
SODIUM	--	ug/l	7800	9000	9500	8600	4600 J
STRONTIUM	--	ug/l	69 B	69	69	66 B	46 B
ZINC	--	ug/l	< 20 U	7.6 J	8.3 J	6.1 J	< 20 U
Other							
Ammonia	--	mg/l	0.17 JB	< 0.2 U	< 0.2 U	0.047 JB	0.12 JB
Biocarbonate Alkalinity	--	mg/l	260	250	280	270	190
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.16 J
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	9.4	9	8.2	8.7	13
FLUORIDE	--	mg/l	0.040 J	0.037 J	0.034 J	0.030 J	0.063 J
Nitrate-N	10	mg/l	0.69 H	0.76	0.79	0.76	1.9
Nitrite-N	1	mg/l	< 0.1 UH	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Orthophosphate	--	mg/l	< 0.5 UH	0.084 J	< 0.5 U	< 0.5 U	< 0.5 UH
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	7.3	7.4	7.6	7.3	0.69 J

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID	MW-103	MW-103	MW-103
		Sample ID Sample Date Unit	MW-103(20120619) 6/19/2012	MW-103(09102012) 9/10/2012	MW-103(20121212) 12/12/2012
Metals					
BARIUM	2000	ug/l	77 JB	77 J	71 J
BORON	--	ug/l	< 200 U	< 200 U	< 200 U
CALCIUM	--	ug/l	46000 B	50000 B	45000
CHROMIUM	100	ug/l	< 5 U	47	< 5 U
IRON	--	ug/l	< 100 U	2700	< 100 U
LEAD	15	ug/l	< 3 U	6	< 3 U
LITHIUM	--	ug/l	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	24000 B	32000	25000
MANGANESE	--	ug/l	0.85 JB	52	2.5 J
NICKEL	--	ug/l	< 40 U	57	3.5 J
POTASSIUM	--	ug/l	880 J	1500 J	900 J
SiO ₂ , Silica	--	ug/l	11000	21000	10000
SODIUM	--	ug/l	5000	5000	4600 J
STRONTIUM	--	ug/l	41 B	50	45 B
ZINC	--	ug/l	6.4 JB	17 J	6.3 J
Other					
Ammonia	--	mg/l	< 0.2 U	0.043 J	0.065 JB
Biocarbonate Alkalinity	--	mg/l	190	200	200
Bromide	--	mg/l	0.18 J	0.13 J	0.13 J
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	13	12	11
FLUORIDE	--	mg/l	0.078 J	0.066 J	0.064 J
Nitrate-N	10	mg/l	1.8	1.8 H	1.7 H
Nitrite-N	1	mg/l	< 0.1 U	< 0.1 UH	< 0.1 UH
Orthophosphate	--	mg/l	0.18 JH	< 0.5 UH	< 0.5 UH
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	0.043 J
Sulfate	--	mg/l	0.82 J	1	1.2

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	MW-104 MW-104(20120309) 3/9/2012	MW-104 MW-104(20120620) 6/20/2012	MW-104 MW-104(09132012) 9/13/2012	MW-105 MW105(20120307) 3/7/2012	MW-105 DUP-1 (20120619) 6/19/2012
Metals							
BARIUM	2000	ug/l	86 JB	92 JB	84 J	120 J	120 JB
BORON	--	ug/l	< 200 U	< 200 U	< 200 U	36 JB	39 J
CALCIUM	--	ug/l	76000 B	80000 B	77000	70000	71000 B
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	< 3 U	3.2	2.5 J	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	2.0 J	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	43000 B	42000 B	43000	37000 B	38000 B
MANGANESE	--	ug/l	0.65 JB	1.1 JB	0.95 JB	< 15 U	< 15 U
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U
POTASSIUM	--	ug/l	2000 JB	2100 J	2000 JB	3100 JB	3200 J
SiO ₂ , Silica	--	ug/l	12000	13000	12000 B	12000	13000
SODIUM	--	ug/l	8200	8800	8800	6400	7400
STRONTIUM	--	ug/l	64 B	60 B	58	96 B	91 B
ZINC	--	ug/l	35 B	52 B	27	< 20 U	9.5 JB
Other							
Ammonia	--	mg/l	< 0.2 U	< 0.2 U	< 0.2 U	0.16 JB	< 0.2 U
Biocarbonate Alkalinity	--	mg/l	350	350	340	320	310
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	22	24	25	8.9	8.2
FLUORIDE	--	mg/l	0.024 J	0.035 J	0.032 J	< 1 U	0.020 J
Nitrate-N	10	mg/l	0.85	0.89	0.93	2.0 H	1.7
Nitrite-N	1	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 UH	< 0.1 U
Orthophosphate	--	mg/l	< 0.5 U	0.19 J	< 0.5 U	< 0.5 UH	< 0.5 U
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	5.6	6.2	6.4	8.4	8.2

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID	MW-105	MW-105	MW-105
		Sample ID Sample Date Unit	MW-105 (20120619) 6/19/2012	MW-105(09132012) 9/13/2012	MW-105(20121210) 12/10/2012
Metals					
BARIUM	2000	ug/l	120 JB	100 J	110 JB
BORON	--	ug/l	40 J	38 J	34 J
CALCIUM	--	ug/l	72000 B	69000	70000 B
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	2.2 J	< 3 U	2.1 J
LITHIUM	--	ug/l	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	39000 B	38000	39000 B
MANGANESE	--	ug/l	0.41 JB	0.59 J	4.1 JB
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U
POTASSIUM	--	ug/l	3300 J	3100 J	3100 J
SiO ₂ , Silica	--	ug/l	13000	9600 B	13000
SODIUM	--	ug/l	7600	7100	7500
STRONTIUM	--	ug/l	89 B	89	96 B
ZINC	--	ug/l	7.8 JB	6.6 J	11 JB
Other					
Ammonia	--	mg/l	0.043 J	< 0.2 U	0.090 JB
Biocarbonate Alkalinity	--	mg/l	330	320	320
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	8.3	7.5	8.2
FLUORIDE	--	mg/l	0.015 J	0.031 J	< 1 U
Nitrate-N	10	mg/l	1.8	1.6	1.8
Nitrite-N	1	mg/l	< 0.1 U	< 0.1 U	< 0.1 U
Orthophosphate	--	mg/l	0.14 J	< 0.5 U	< 0.5 U
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	8.2	7.9	8.2

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	MW-107D MW107D(20120305) 3/5/2012	MW-107D MW-107D (20120618) 6/18/2012	MW-107D MW-107D(09112012) 9/11/2012	MW-107D MW-107D(121212) 12/12/2012	MW-107S DUP(20120305) 3/5/2012
Metals							
BARIUM	2000	ug/l	150 J	160 JB	160 J	160 JB	58 J
BORON	--	ug/l	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
CALCIUM	--	ug/l	40000	40000 B	38000 B	40000 B	56000
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	2.2 J	2.5 J	2.0 J	< 3 U	3.8
LITHIUM	--	ug/l	< 50 U	1.9 J	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	23000 B	24000 B	27000	25000 B	29000 B
MANGANESE	--	ug/l	1.1 J	1.5 JB	1.0 J	1.8 JB	1.6 J
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U
POTASSIUM	--	ug/l	1200 JB	1200 J	1400 J	1200 J	980 JB
SiO ₂ , Silica	--	ug/l	8800	9400	9800	9300	9200
SODIUM	--	ug/l	2400 J	3300 J	3600 J	3400 J	2200 J
STRONTIUM	--	ug/l	45 B	42 B	42	43 B	47 B
ZINC	--	ug/l	390	250 B	220	180 B	720
Other							
Ammonia	--	mg/l	0.092 JB	< 0.2 U	< 0.2 U	< 0.2 U	0.26 B
Biocarbonate Alkalinity	--	mg/l	190	180	190	180	240
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	1.3	1.3	0.99 J	0.98 J	2.9
FLUORIDE	--	mg/l	0.044 J	0.051 J	0.063 J	0.059 J	0.062 J
Nitrate-N	10	mg/l	0.15 H	0.081 J	0.061 J	0.029 J	0.71 H
Nitrite-N	1	mg/l	< 0.1 UH	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 UH
Orthophosphate	--	mg/l	0.89 H	< 0.5 U	< 0.5 U	0.14 J	< 0.5 UH
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.2 U
Sulfate	--	mg/l	12	14	15	15	17

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	MW-107S MW107S(20120305) 3/5/2012	MW-107S MW-107S (20120619) 6/19/2012	MW-107S MW-107S(09112012) 9/11/2012	MW-107S MW-107S(121212) 12/12/2012	MW-107S MW-107S(20121214) 12/14/2012
Metals							
BARIUM	2000	ug/l	60 J	54 JB	47 J	46 JB	180 J
BORON	--	ug/l	64 JB	< 200 U	< 200 U	< 200 U	34 J
CALCIUM	--	ug/l	57000	55000 B	52000 B	52000 B	76000
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	3	3.2	2.6 J	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	30000 B	30000 B	33000	30000 B	41000
MANGANESE	--	ug/l	1.5 J	1.2 JB	2.6 J	2.6 JB	9.6 J
NICKEL	--	ug/l	< 40 U	< 40 U	4.0 J	< 40 U	8.5 J
POTASSIUM	--	ug/l	1100 JB	1200 J	1100 J	990 JB	2300 J
SiO ₂ , Silica	--	ug/l	9200	9800	10000	8800 B	13000
SODIUM	--	ug/l	2500 J	3100 J	3300 J	2800 J	6900
STRONTIUM	--	ug/l	49 B	44 B	48	48 B	110 B
ZINC	--	ug/l	740	410 B	350	180 B	120
Other							
Ammonia	--	mg/l	0.19 JB	< 0.2 U	0.038 J	0.041 J	0.046 JB
Biocarbonate Alkalinity	--	mg/l	250	230	230	230	340
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	2.8	3.1	2.3	3.1	7
FLUORIDE	--	mg/l	0.052 J	0.064 J	0.074 J	0.073 J	0.024 J
Nitrate-N	10	mg/l	0.68 H	0.67	0.65 H	0.7	0.28
Nitrite-N	1	mg/l	< 0.1 UH	< 0.1 U	< 0.1 UH	< 0.1 U	< 0.1 U
Orthophosphate	--	mg/l	< 0.5 UH	< 0.5 U	< 0.5 UH	0.28 J	< 0.5 U
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	17	18	13	20	12

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID	MW-108D	MW-108D	MW-108D	MW-108D	MW-108S
		Sample ID Sample Date Unit	MW108D(20120306) 3/6/2012	MW-108D(20120620) 6/20/2012	MW-108D(09102012) 9/10/2012	MW-108D(121212) 12/12/2012	MW108S(20120306) 3/6/2012
Metals							
BARIUM	2000	ug/l	180 J	180 J	170 JB	160 JB	200
BORON	--	ug/l	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
CALCIUM	--	ug/l	59000	50000	47000 B	45000 B	78000
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	140	< 100 U	< 100 U
LEAD	15	ug/l	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	2.7 JB	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	32000 B	29000	28000	27000 B	39000 B
MANGANESE	--	ug/l	0.48 J	< 15 U	1.6 JB	< 15 U	81
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	< 40 U	7.4 J
POTASSIUM	--	ug/l	1400 JB	1300 J	1200 J	1100 JB	2600 JB
SiO ₂ , Silica	--	ug/l	10000	11000	10000 B	9700 B	13000
SODIUM	--	ug/l	4000 J	4300 J	3700 J	3500 J	6200
STRONTIUM	--	ug/l	58 B	51	48	48 B	120 B
ZINC	--	ug/l	31	16 J	13 J	11 JB	170
Other							
Ammonia	--	mg/l	0.17 JB	< 0.2 U	0.035 J	0.061 J	0.23 B
Biocarbonate Alkalinity	--	mg/l	260	220	210	200	330
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U
CHLORIDE	--	mg/l	6	5.3	5.6	4.4	8.7
FLUORIDE	--	mg/l	0.039 J	0.053 J	0.043 J	0.042 J	< 1 U
Nitrate-N	10	mg/l	0.45 H	0.37	0.33	0.32	0.33 H
Nitrite-N	1	mg/l	< 0.1 UH	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 UH
Orthophosphate	--	mg/l	< 0.5 UH	0.11 J	< 0.5 U	0.16 J	< 0.5 UH
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	14	13	14	13	11

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID	MW-108S	MW-108S
		Sample ID Sample Date Unit	MW-108S(20120620) 6/20/2012	MW-108S(09112012) 9/11/2012
Metals				
BARIUM	2000	ug/l	190 J	170 J
BORON	--	ug/l	< 200 U	< 200 U
CALCIUM	--	ug/l	73000	71000 B
CHROMIUM	100	ug/l	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U
LEAD	15	ug/l	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	< 50 U
MAGNESIUM	--	ug/l	37000	43000
MANGANESE	--	ug/l	76 B	8.9 J
NICKEL	--	ug/l	5.6 J	4.5 J
POTASSIUM	--	ug/l	2300 J	2300 J
SiO ₂ , Silica	--	ug/l	13000	14000
SODIUM	--	ug/l	7200	7700
STRONTIUM	--	ug/l	100	93
ZINC	--	ug/l	87	130
Other				
Ammonia	--	mg/l	< 0.2 U	0.052 J
Biocarbonate Alkalinity	--	mg/l	340	330
Bromide	--	mg/l	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U
CHLORIDE	--	mg/l	10	10
FLUORIDE	--	mg/l	0.033 J	0.031 J
Nitrate-N	10	mg/l	0.29	0.37 H
Nitrite-N	1	mg/l	< 0.1 U	< 0.1 UH
Orthophosphate	--	mg/l	0.20 J	< 0.5 UH
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	12	15

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit



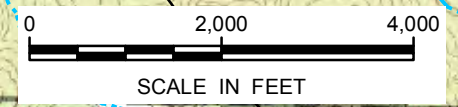
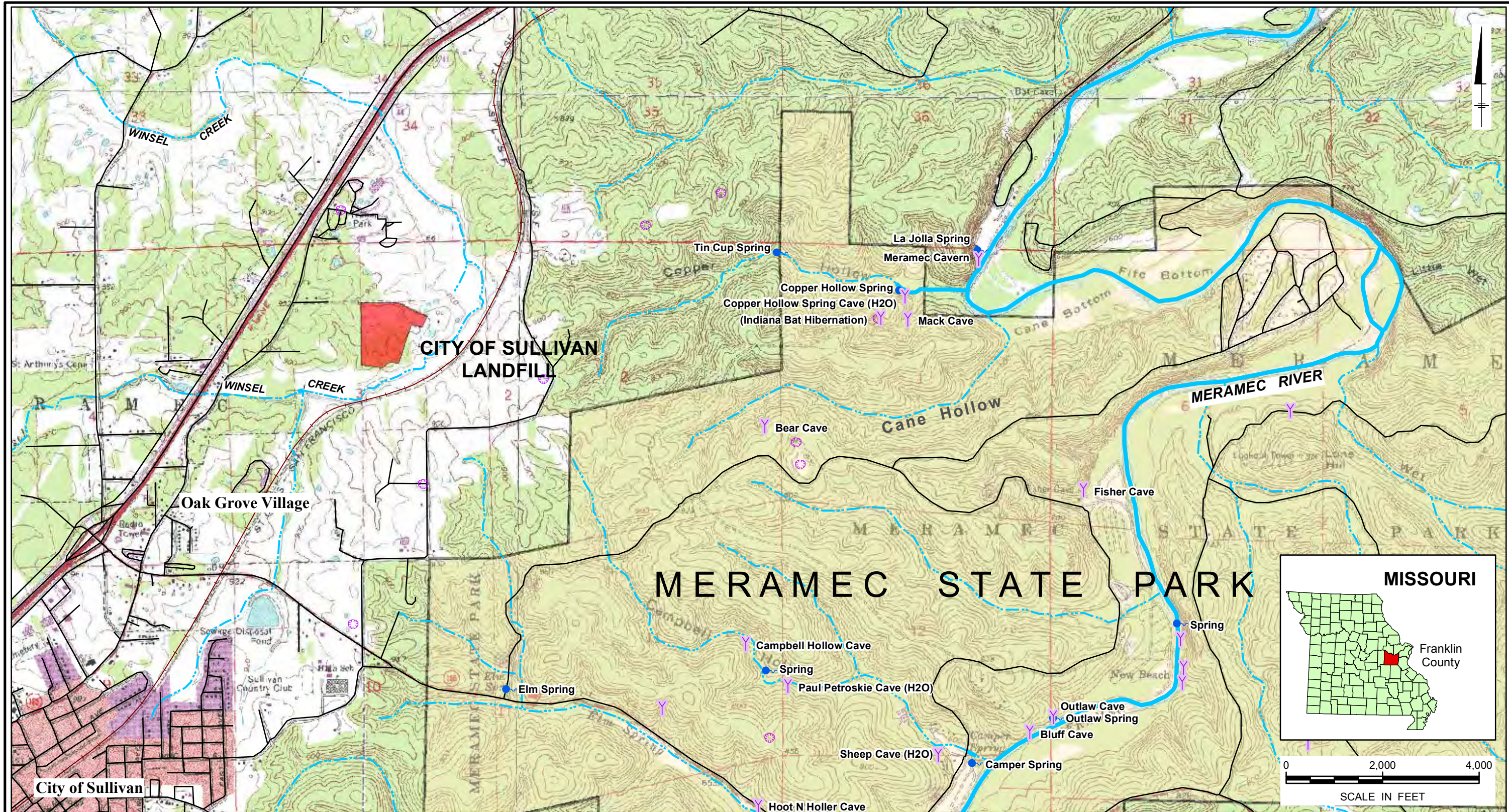
Table 5-8. Groundwater Sampling Inorganic Analytical Results

Chemical Name	EPA MCLs	Location ID Sample ID Sample Date Unit	VOSS VOSS(20120309) 3/9/2012	VOSS VOSSWELL(20120621) 6/21/2012	VOSS VOSS WELL(09122012) 9/12/2012	VOSS DUP-01(20121213) 12/13/2012	VOSS VOSS WELL(20121213) 12/13/2012
Metals							
BARIUM	2000	ug/l	180 JB	190 J	190 J	190 J	180 J
BORON	--	ug/l	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
CALCIUM	--	ug/l	51000 B	52000	51000	45000	46000
CHROMIUM	100	ug/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
IRON	--	ug/l	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
LEAD	15	ug/l	< 3 U	2.2 J	< 3 U	< 3 U	< 3 U
LITHIUM	--	ug/l	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
MAGNESIUM	--	ug/l	29000 B	29000	28000	26000	26000
MANGANESE	--	ug/l	0.74 JB	< 15 U	0.52 J	0.43 J	< 15 U
NICKEL	--	ug/l	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U
POTASSIUM	--	ug/l	1500 JB	1400 J	1400 J	1100 J	1100 J
SiO ₂ , Silica	--	ug/l	11000	12000	11000 B	10000	10000
SODIUM	--	ug/l	4900 J	5400	4700 J	3800 J	3800 J
STRONTIUM	--	ug/l	49 B	49	47	45 B	44 B
ZINC	--	ug/l	7.3 JB	7.3 J	11 J	8.0 J	8.5 J
Other							
Ammonia	--	mg/l	0.038 J	< 0.2 U	0.036 J	0.036 JB	0.037 JB
Biocarbonate Alkalinity	--	mg/l	230	240	210	230	210
Bromide	--	mg/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbonate Alkalinity	--	mg/l	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
CHLORIDE	--	mg/l	8.1	8.7	8.1	7.8	7.6
FLUORIDE	--	mg/l	0.033 J	0.045 J	0.052 J	0.048 J	0.051 J
Nitrate-N	10	mg/l	0.97	1.1	1.1	1.0 H	1
Nitrite-N	1	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 UH	< 0.1 U
Orthophosphate	--	mg/l	< 0.5 U	0.083 J	< 0.5 U	< 0.5 UH	< 0.5 U
Phosphorus	--	mg/l	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sulfate	--	mg/l	11	11	11	11	11

NA Not Analyzed
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 J Estimated value
 B Analyte detected in Blank
 H Sample was analyzed beyond the specified hold time
 U Not detected above reporting limit

Figures

CITY(KNOXVILLE) DIV(GROUP:ENV/GIS) DB:(BALTO) PIC:(J) PM:(J) SHONFELT TM:(B) OVERHOLTZER(MCOBB)
PROJECT: KC001590.0003.0009 PATH: G:\GISTRWMO_Sullivan\MapDocs\OU2\2013 PFI SC5\F1-1\KC1590_PFI REG.mxd SAVED: 2/4/2013 BY: ballom



PROJECTION: NAD83 State Plane Missouri East Feet

LEGEND

- Road
- River/Stream/Creek
- - - Intermittent Stream/Creek
- Spring
- Y Cave Entrance
- Sinkhole

REFERENCE: drg_s_mo071.sid
U.S.G.S. 7.5 Minute Series Digital
Orthophoto Quadrangles:
Franklin County, Missouri.
(downloaded from gisdatadepot.com)

OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

Regional Location Map


 **ARCADIS**

FIGURE
1-1

CITY:(KNOXVILLE) DIV:(GROUP:(ENV/GIS) DB:(B-ALTO) PIC:(J.SHONFELT) TM:(B.OVERHOLTZERM.COBB)
PROJECT: KC001590.0003.0009 PATH: G:\GISTRWMO_Sullivan\MapDocs\OU2\2013 Phi SCS\F2-1 KC1590_PFI AREA.mxd
SAVED: 2/4/2013 BY: battom



PROJECTION: NAD83 State Plane Missouri East Feet

AERIAL SOURCE: ESRI ONLINE SERVICES
(ACCESSED JANUARY 2013).

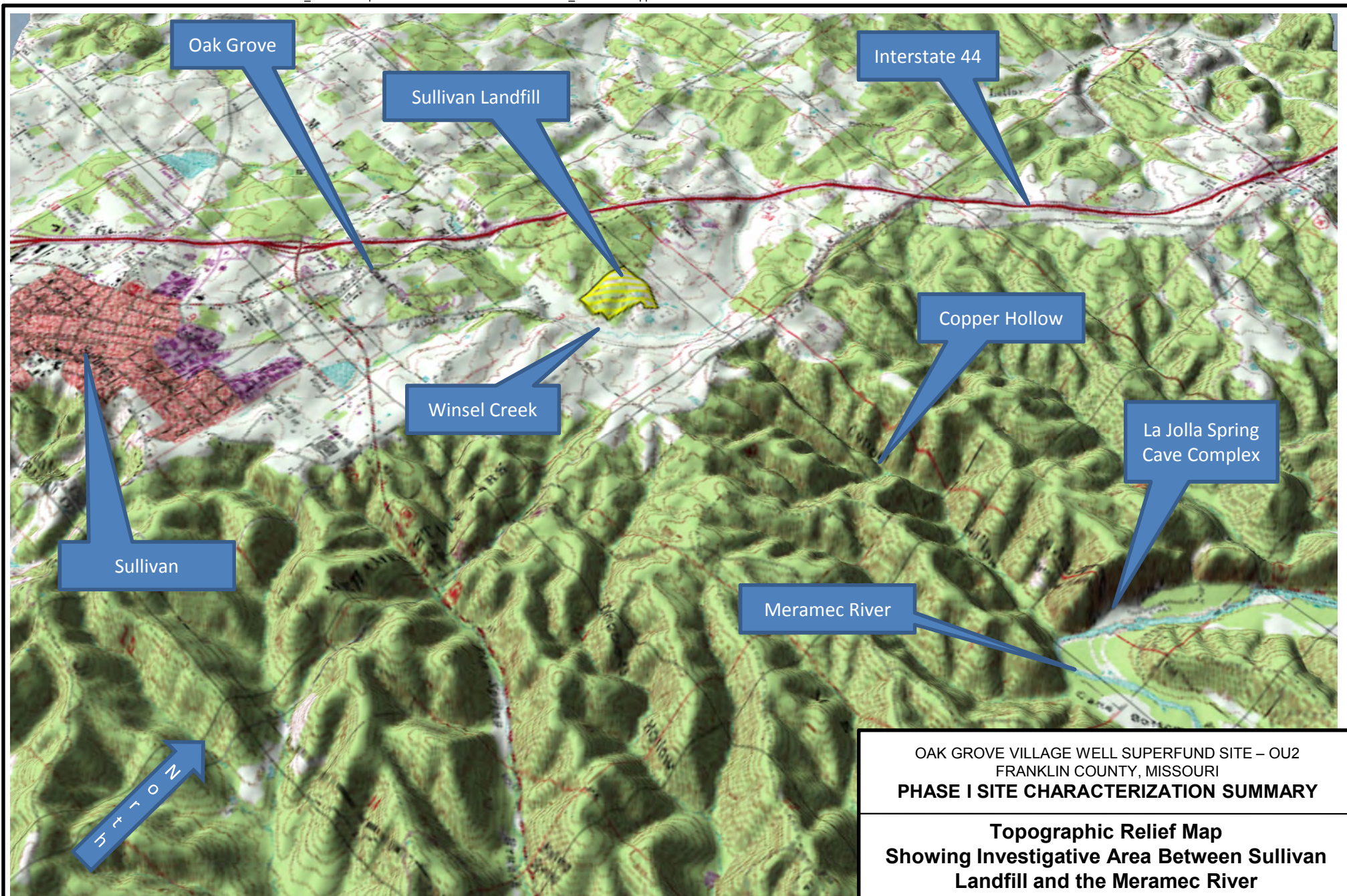
OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

City of Sullivan Landfill Vicinity Map



FIGURE

2-1



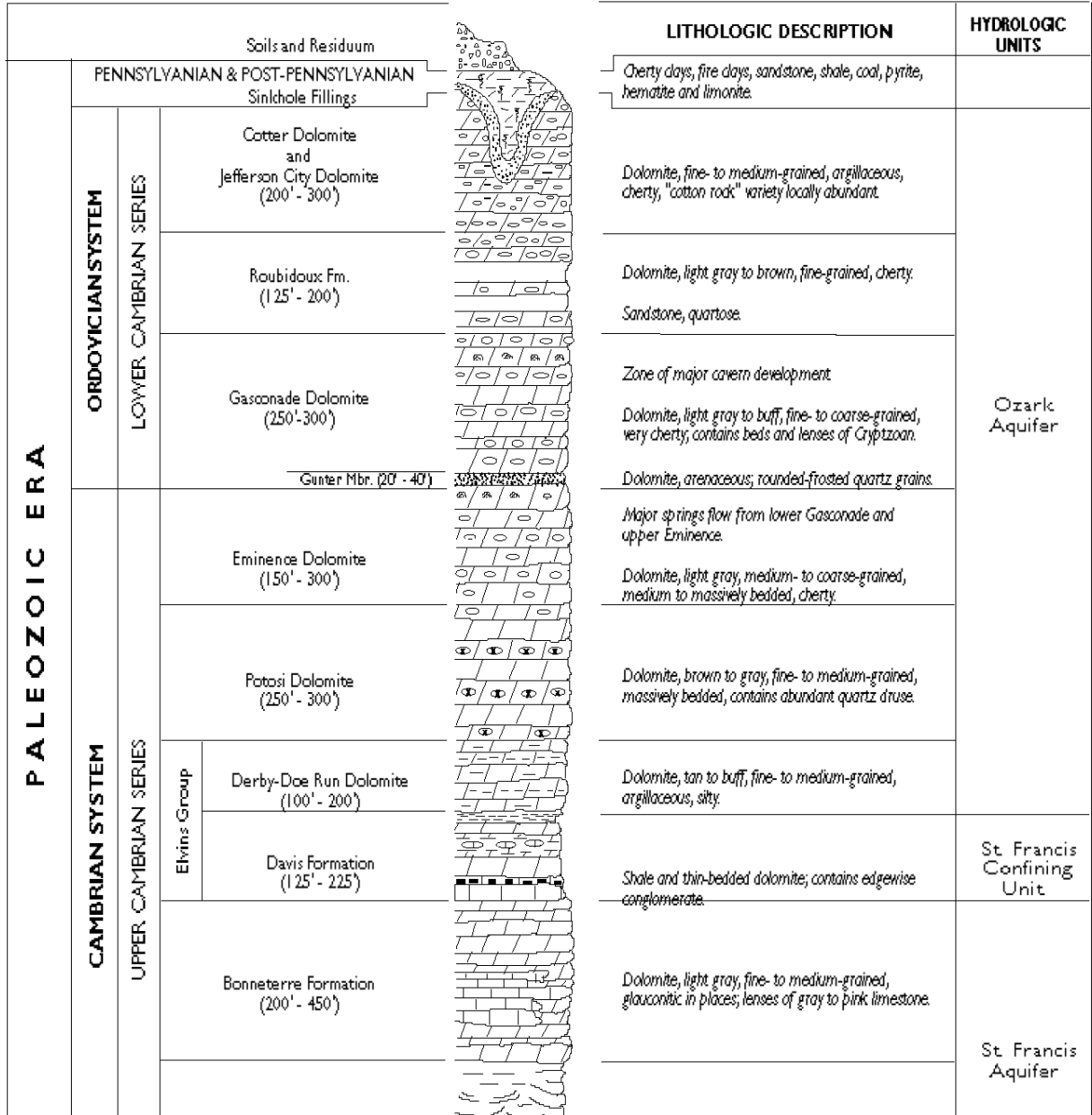
OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

Topographic Relief Map
Showing Investigative Area Between Sullivan
Landfill and the Meramec River

MAP SOURCE
USGS 7.5 minute series topographic quadrangles:
- Sullivan, MO (1969, revised 1980)
- Meramec State Park, MO (1969, revised 1980)



FIGURE
2-2



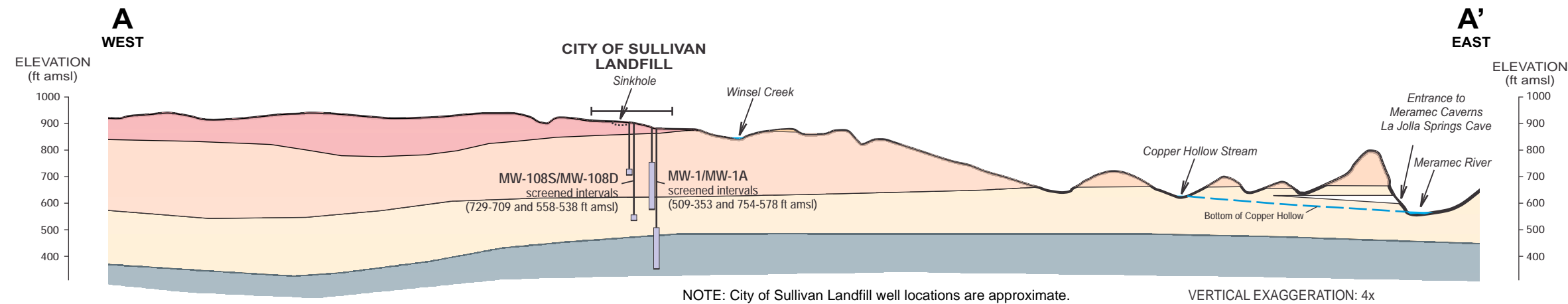
Excerpted from:
Vandike, James E., 1996. The Hydrology of Maramec Spring, Missouri Department of Natural Resources, Division of Geology and Land Survey. Water Resources Report Number 55.

OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

Generalized Stratigraphic Section

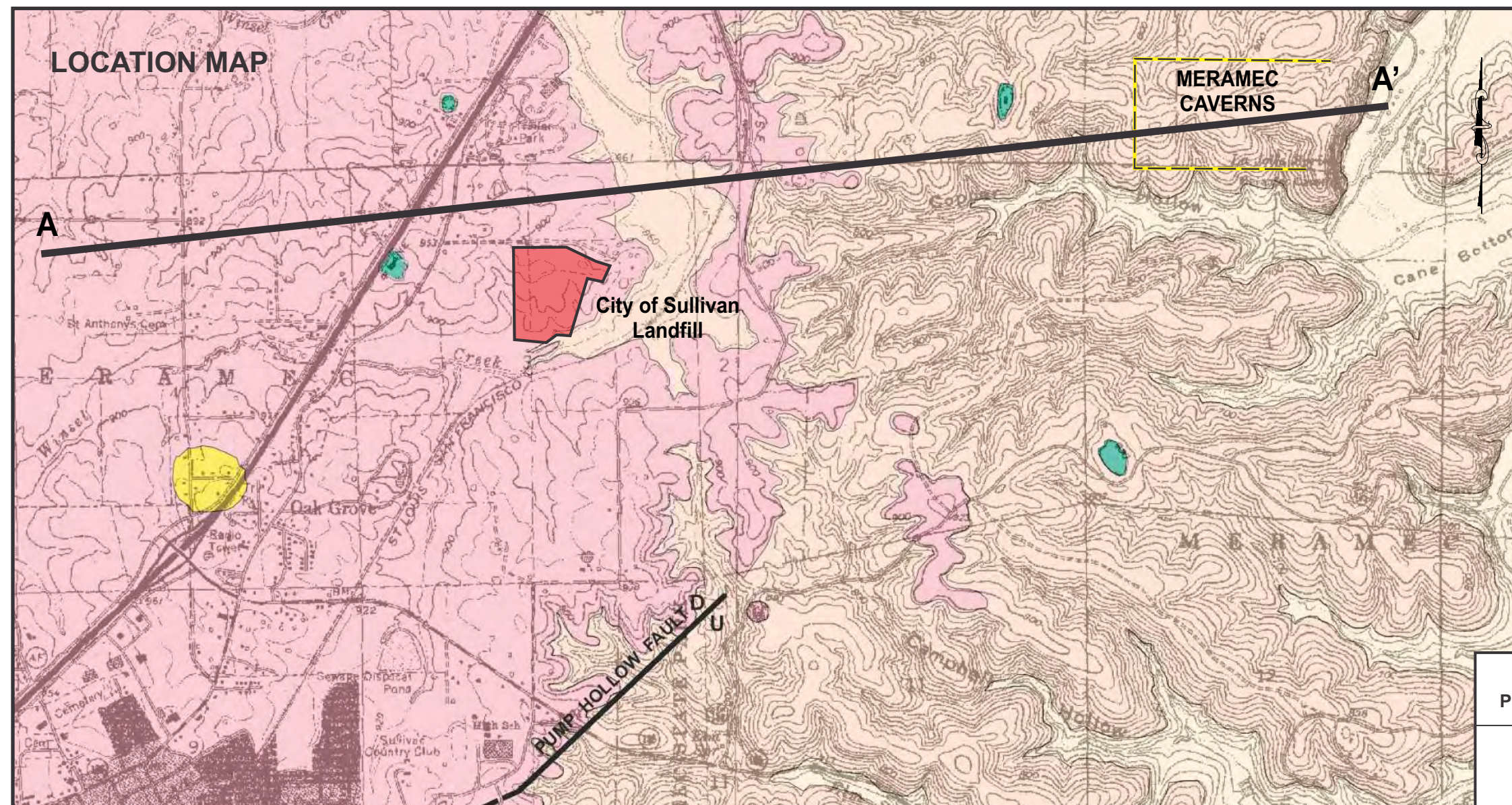


CITY:KNOXVILLE DIV:GROUP:ENV/GIS DB:(B:ALTO) PIC:(L) PM:(J:SHONFELT) TM:(B:OVERHOLTZER/M:COBB)
PROJECT: KC001590.0003.0009 PATH: G:\GIS\TR\WMO_SullivanMapDocs\OU2\2013 PHI SCSEF2-4 KC1590_PHI REG GEO.cdr SAVED: 3MAR2013 BY: BAL TOM



SOURCES:
Missouri Division of Geology and Water Resources. 1949. Geologic Map of the Sullivan, Missouri 15-Minute Quadrangle.

Robertson, C.E. 1991. Geologic Map of the Sullivan, Missouri 7.5-Minute Quadrangle. Unpublished map prepared by the Missouri Department of Natural Resources, Division of Geology and Land Survey.



OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

Regional Geology



FIGURE
2-4

CITY:(KNOXVILLE) DIV:(GROUP:(ENV/(GIS) DB:(B,ALTO) PIC:(J, SHONFELT) TM:(B,OVERHOLTZER/M,COBB)
PROJECT: KC001590.0003.0009 PATH: G:\GISTRWMO_Sullivan\MapDocs\OU2\2013\Phi1 SCS\F4-1 KC1590_PFI Landfill.mxd SAVED: 2/12/2013 BY: baltom



LEGEND

- Landfill Boundary
- Stream
- Railroad
- Road
- Anchor Trench
- Surface Elevation Contour (ft amsl)
- Former Sinkhole
- Trench Boundary
- Former Seep Area
- Groundwater Monitoring Well
- Boring
- Private Water-Supply Well

AERIAL SOURCE: ESRI ONLINE SERVICES
(ACCESSED JANUARY 2013).

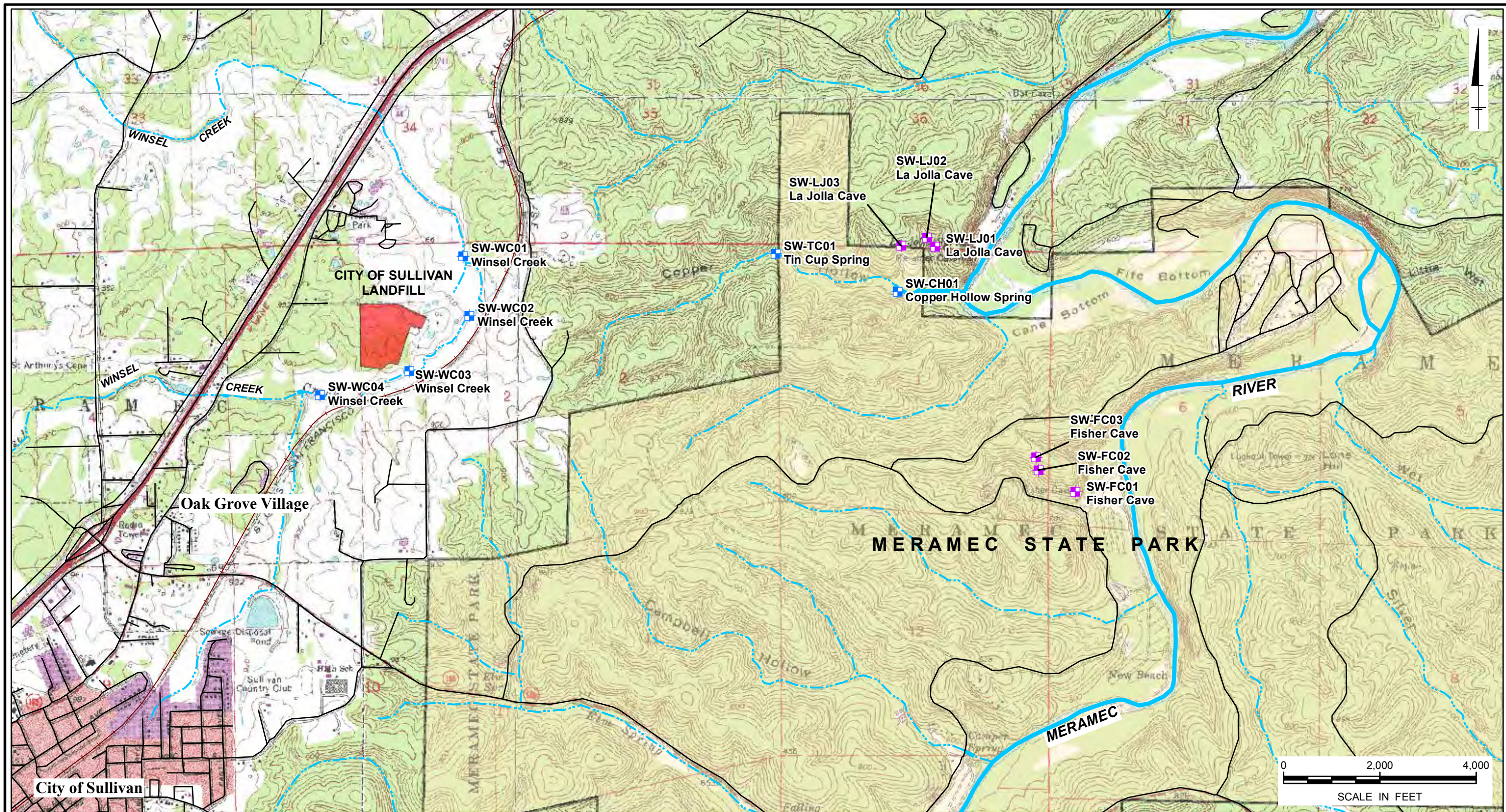
REFERENCE:
1) ERM, CLOSURE PLAT (1996).
2) MARLER WELL SURVEY (MARCH 2012).



PROJECTION: NAD83 State Plane Missouri East Feet

OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2 FRANKLIN COUNTY, MISSOURI	
PHASE I SITE CHARACTERIZATION SUMMARY	
Landfill Layout	
ARCADIS	FIGURE 4-1

CITY(KNOXVILLE) DIV(GROUP/ENV/GIS) DB:(BALTO) PIC:(J) PM:(J) SHONFELT TM:(B) OVERHOLTZER(MCOBB)
PROJECT: K001590.0003.0009 PATH: G:\GISTRWMO_Sullivan\MapDocs\OU2\013 PFI SC5IF4.2 KC1590_PFI SW.mxd SAVED: 2/5/2013 BY: baltom



PROJECTION: NAD83 State Plane Missouri East Feet

LEGEND

- Road
- River/Stream/Creek
- - - Intermittent Stream/Creek
- Spring or Surface Water Sample
- Cave Stream Sample (surface location approximate)

NOTE: All locations are approximate.

REFERENCE: drg_s_mo071.sid
U.S.G.S. 7.5 Minute Series Digital
Orthophoto Quadrangles:
Franklin County, Missouri.
(downloaded from gisdatadepot.com)

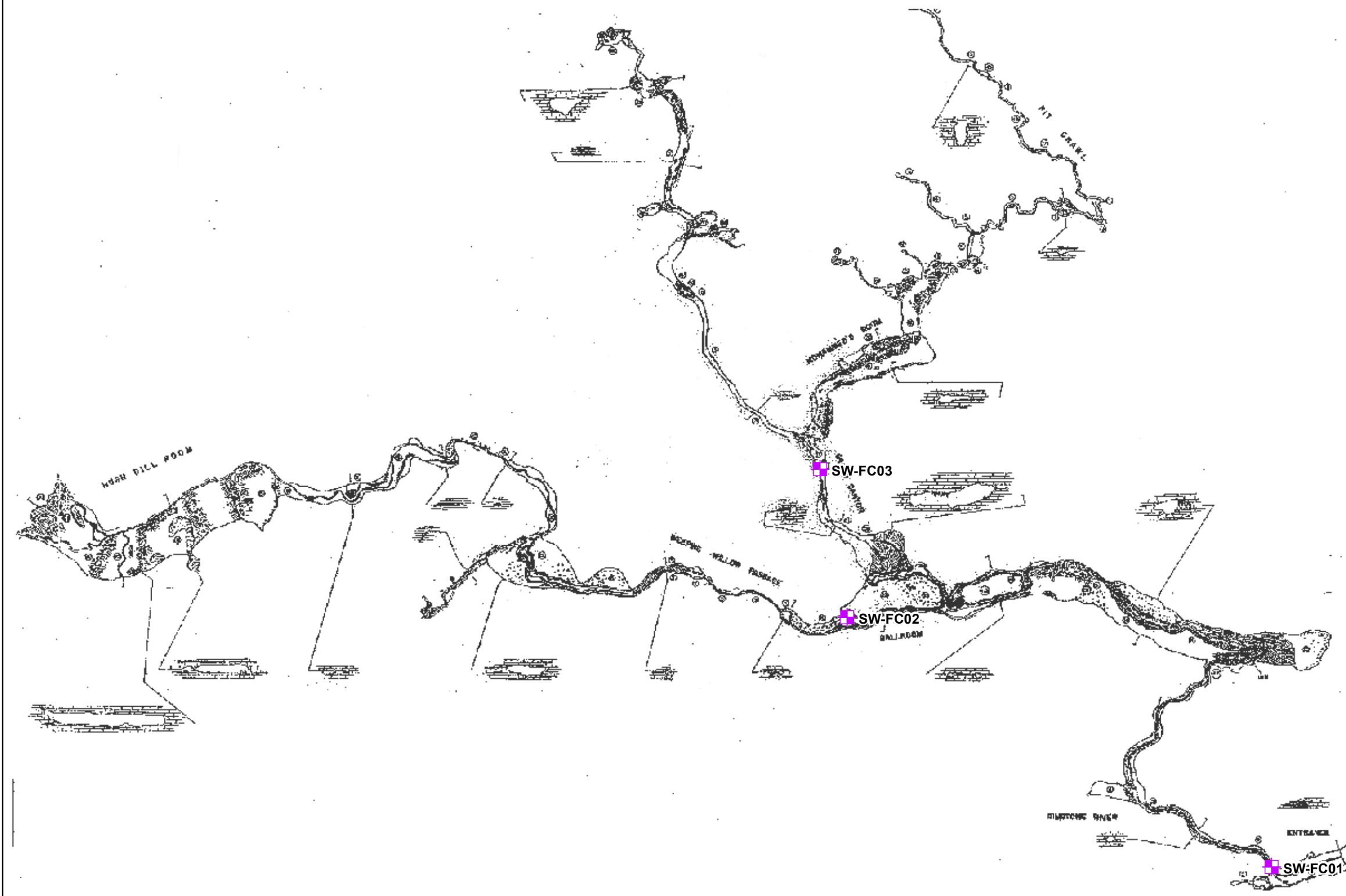
OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

**Spring, Surface Water and Cave
Stream Sampling Locations**



FIGURE
4-2

CITY:(KNOXVILLE) DIV:(GROUP:(ENV/GIS) DB:(BALTIM) PIC:(J SHONFELT) TM:(BOVERHOLTZER/M COBB)
PROJECT: KC001590.0003.0009 PATH: G:\GISTRWMO_Sullivan\MapDocs\OU2\2013 PFI SCS\F44 KC1590_PFI FisherCave.mxd SAVED: 2/5/2013 BY: baltom



PROJECTION: NAD83 State Plane Missouri East Feet

LEGEND

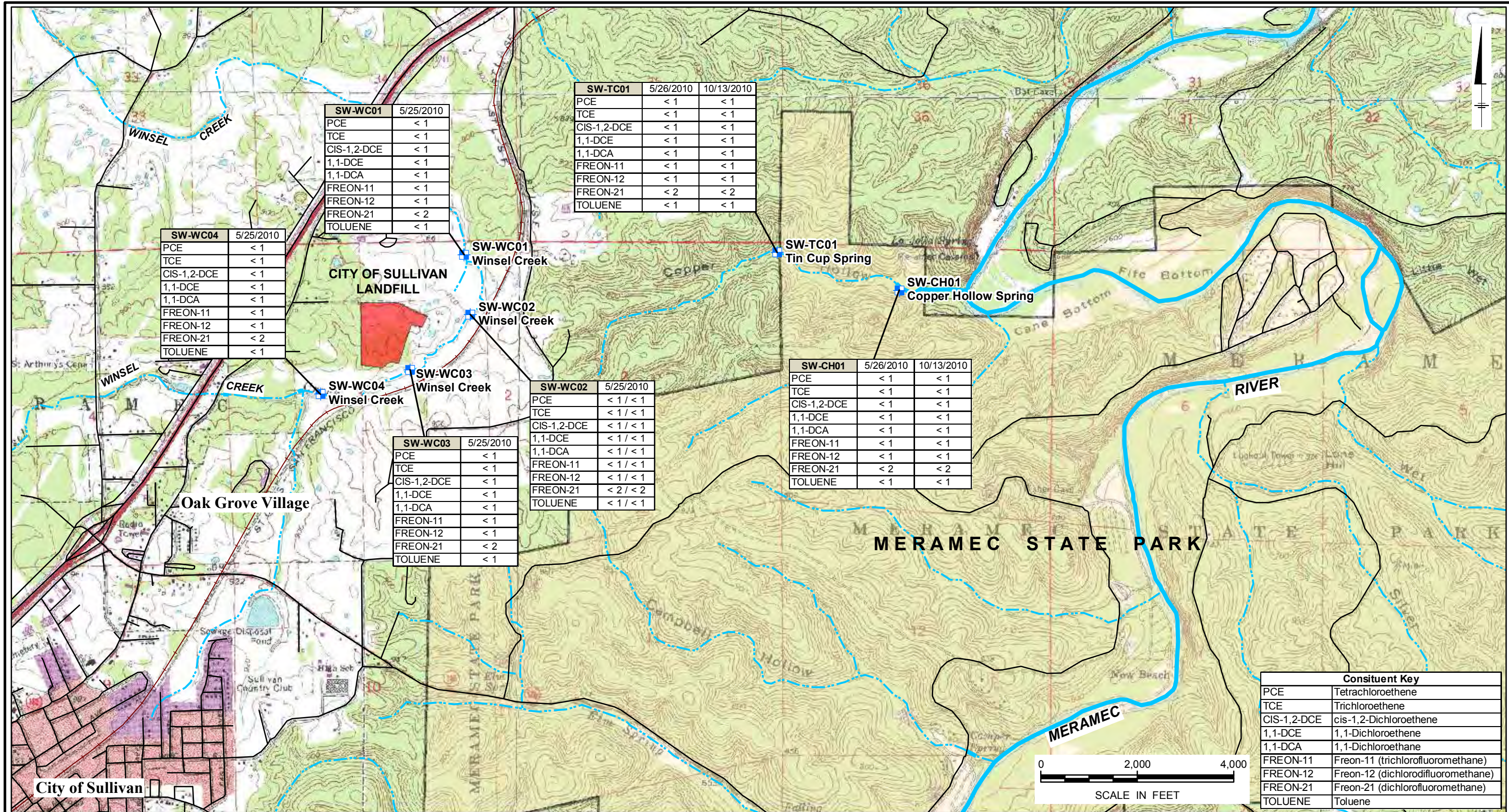
☒ Cave Stream Sample (surface location approximate)

NOTE: All locations are approximate.

REFERENCE:
FISHER CAVE FRANKLIN COUNTY: FRA 005 (OCTOBER 1958). Surveyed by M.M.V.

OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2 FRANKLIN COUNTY, MISSOURI	
PHASE I SITE CHARACTERIZATION SUMMARY	
Fisher Cave Sampling Locations	
	FIGURE 4-4

CITY(KNOXVILLE) DIV(GROUP:ENV/GIS) DB:(BALTO) PIC:(J) PM:(J)SHONELT) TM:(BOVERHOLTZER/MCOBB) PROJECT: K001590.0003.0009 PATH: G:\GISTRWMO_Sullivan\MapDocs\OU2\2013 Phl SCS\FS-1\KCI590_Phl SW 2010.mxd SAVED: 3/28/2013 BY: ballom



PROJECTION: NAD83 State Plane Missouri East Feet

LEGEND

- Road
- River/Stream/Creek
- - - Intermittent Stream/Creek
- + Spring or Surface Water Sample

NOTES:

- 1) All locations are approximate.
- 2) All concentrations are reported in micrograms per liter (µg/L).
- 3) Listed parameters include all volatile organic compounds detected in groundwater at Landfill at concentrations above 1 µg/L.

REFERENCE: drg_s_mo071.sid
U.S.G.S. 7.5 Minute Series Digital
Orthophoto Quadrangles:
Franklin County, Missouri.
(downloaded from gisdatadepot.com)

OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

Spring and Surface Water Sampling Results



FIGURE
5-1

CITY:(KNOXVILLE) DIV:(GROUP:(ENV/GIS) DB:(BALTIM) PIC:(J. SHONFELT) TM:(BOVERHOLTZER/MCOBB) PROJECT: KC001590.0003.0009 PATH: G:\GISTRWMO_Sullivan\MapDocs\OU2\2013 Pht SCS\F5-2 KC1590_Pht SW 2010 L.J.mxd SAVED: 3/28/2013 BY: baltom

Constituent Key	
PCE	Tetrachloroethene
TCE	Trichloroethene
CIS-1,2-DCE	cis-1,2-Dichloroethene
1,1-DCE	1,1-Dichloroethene
1,1-DCA	1,1-Dichloroethane
FREON-11	Freon-11 (trichlorofluoromethane)
FREON-12	Freon-12 (dichlorodifluoromethane)
FREON-21	Freon-21 (dichlorofluoromethane)
TOLUENE	Toluene

SW-LJ03	5/27/2010	10/13/2010
PCE	< 1	< 1
TCE	< 1	5
CIS-1,2-DCE	< 1	< 1
1,1-DCE	< 1	< 1
1,1-DCA	< 1	< 1
FREON-11	< 1	< 1
FREON-12	< 1	< 1
FREON-21	< 2	< 2
TOLUENE	< 1	< 1

SW-LJ01	5/27/2010	10/13/2010
PCE	< 1	< 1 / < 1
TCE	1	5.1 / 4.7
CIS-1,2-DCE	< 1	< 1 / < 1
1,1-DCE	< 1	< 1 / < 1
1,1-DCA	< 1	< 1 / < 1
FREON-11	< 1	< 1 / < 1
FREON-12	< 1	< 1 / < 1
FREON-21	< 2	< 2 / < 2
TOLUENE	< 1	< 1 / < 1

SW-LJ02	5/27/2010
PCE	< 1
TCE	< 1
CIS-1,2-DCE	< 1
1,1-DCE	< 1
1,1-DCA	< 1
FREON-11	< 1
FREON-12	< 1
FREON-21	< 2
TOLUENE	< 1

PROJECTION: NAD83 State Plane Missouri East Feet

LEGEND

☒ Cave Stream Sample (surface location approximate)

NOTES:

- 1) All locations are approximate.
- 2) All concentrations are reported in micrograms per liter (µg/L).
- 3) Listed parameters include all volatile organic compounds detected in groundwater at Landfill at concentrations above 1 µg/L.
- 4) All detections are shown in **BOLD**. Shaded values are in excess of EPA Maximum Contaminant Levels (MCLs).

REFERENCE:

MERAMEC CAVERNS: FRA 004 (MAY 1995). Surveyed by Missouri Speleological Survey.

OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

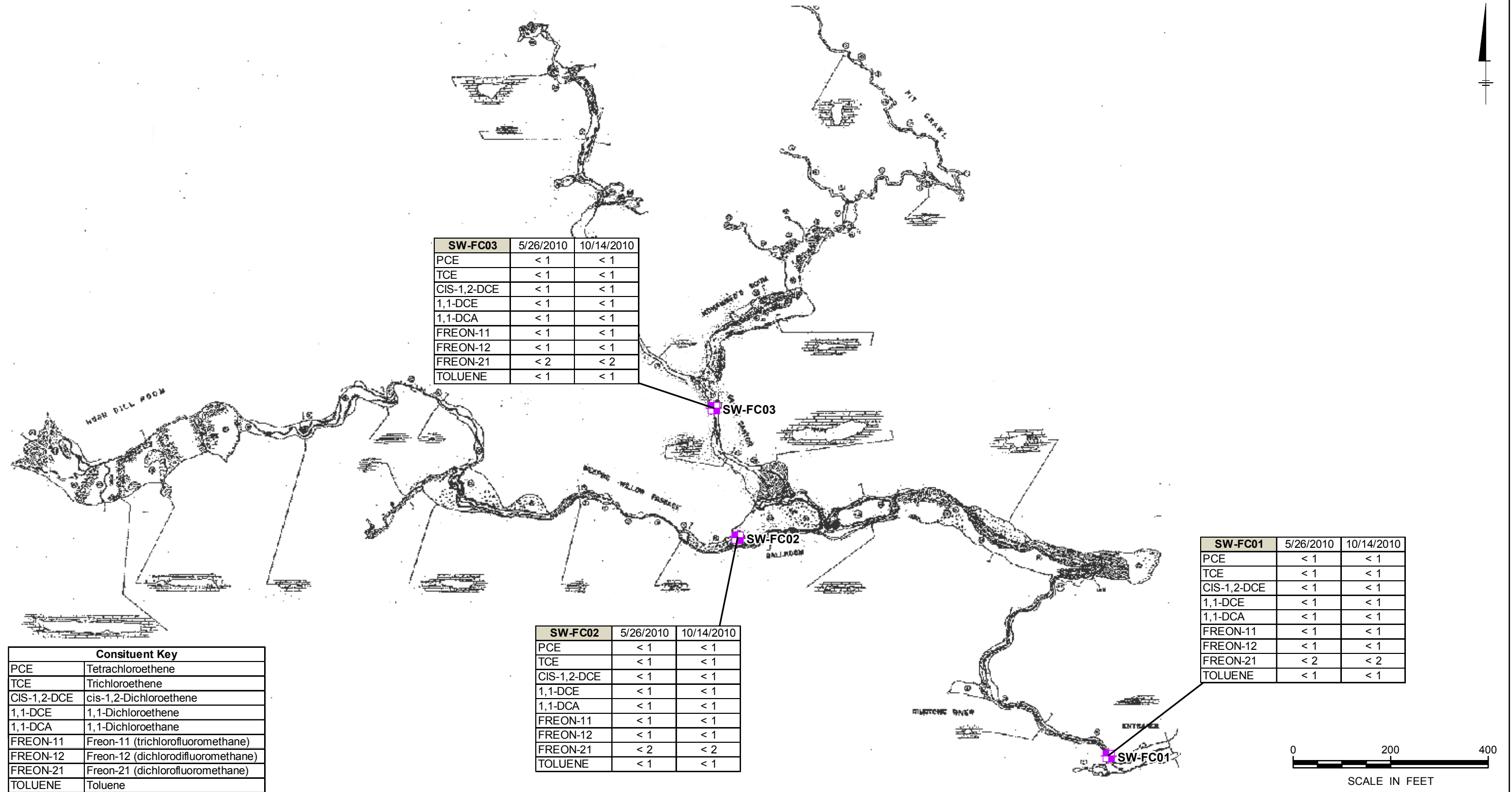
**La Jolla Springs Cave
Complex Sampling Results**



FIGURE

5-2

CITY:(KNOXVILLE) DIV:(GROUP:(ENV/GIS) DB:(BALTIM) PIC:(J. SHONFELT) TM:(BOVERHOLTZER/MCOBB) PROJECT: KC001590.0003.0009 PATH: G:\GISTRWMO_Sullivan\MapDocs\OU2\2013\Phi1\SCS\F5-3 KC1590_PFI SW 2010 FC.mxd SAVED: 3/28/2013 BY: ballom



PROJECTION: NAD83 State Plane Missouri East Feet

LEGEND

☒ Cave Stream Sample (surface location approximate)

NOTES:

- 1) All locations are approximate.
- 2) All concentrations are reported in micrograms per liter (µg/L).
- 3) Listed parameters include all volatile organic compounds detected in groundwater at Landfill at concentrations above 1 µg/L.

REFERENCE:
FISHER CAVE FRANKLIN COUNTY: FRA 005 (OCTOBER 1958). Surveyed by M.M.V.

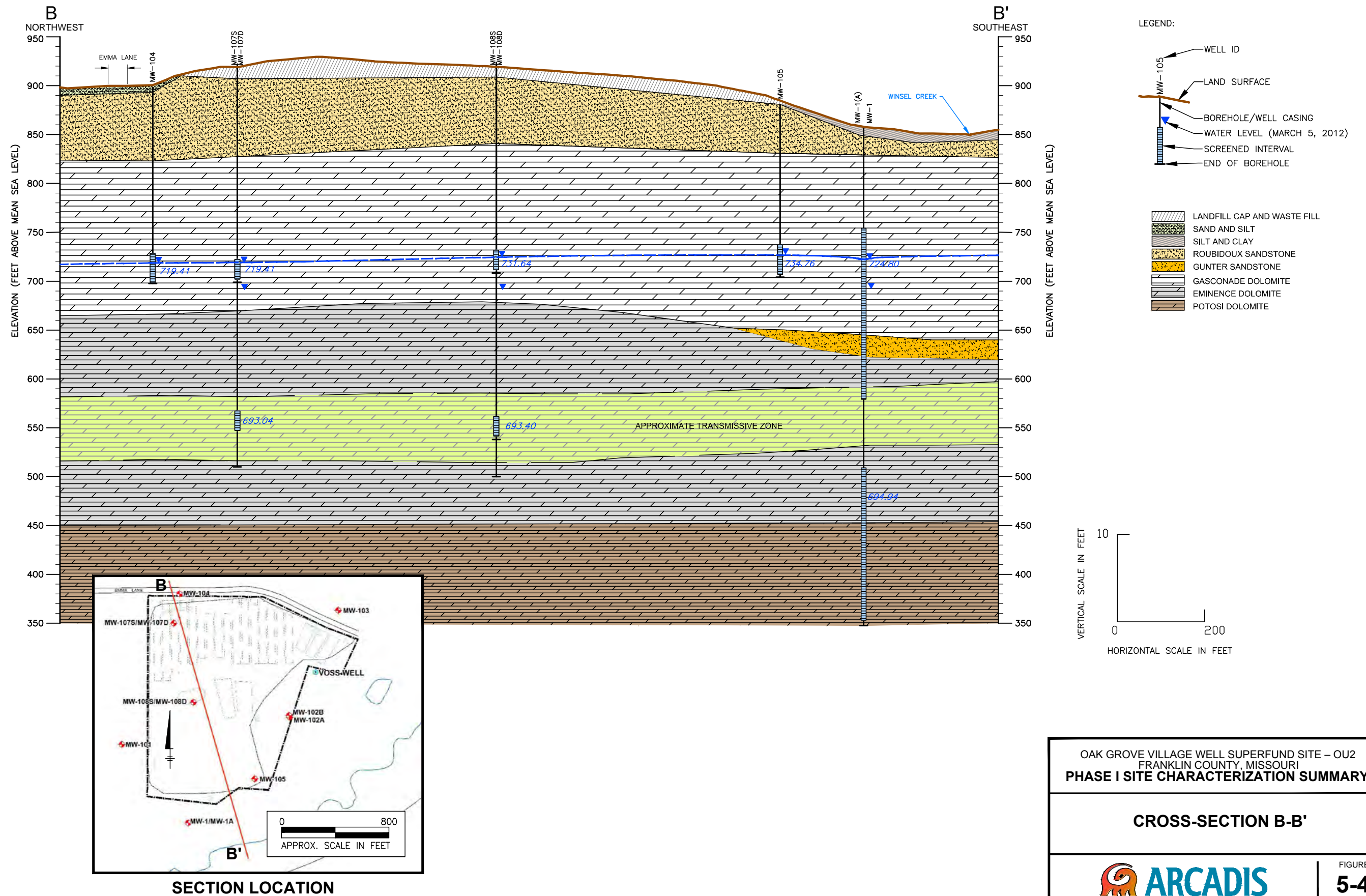
OAK GROVE VILLAGE WELL SUPERFUND SITE – OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

Fisher Cave Sampling Results

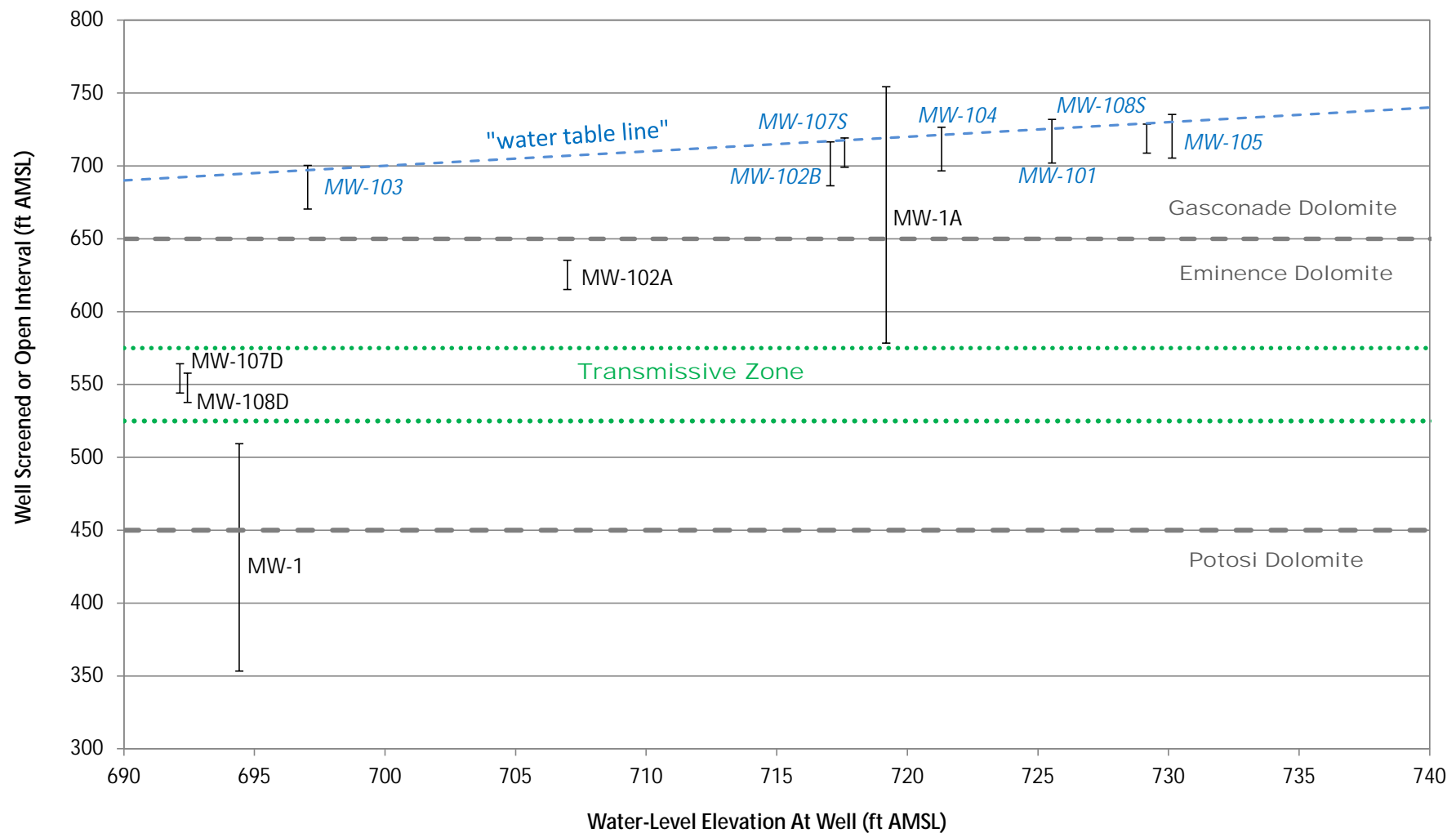


FIGURE
5-3

CITY:KNOXVILLE DIV:GROUP/ENV/GIS DR:(BALTIM) PIC:LJ PM:(LJSHONFELT) TM:(BOVERHOLTZER/MCOBB) PROJECT:KC001590.0003.0009
PATH:G:\GIS\TRWMO_Sullivan\MapDocs\OU2\2013 Pht SCISF5-4 KC1590 XSECS B-B.dwg LAYOUT: 5-4 .SAVED: 3/28/2013 2:26 PM ACADVER: 18.1S (LMS TECH) PAGES:5-4 PLOTSTYLETABLE: ARCADIS(SIZE A-B).CTB PLOTTED: 3/28/2013 3:47 PM BY: ALTON, BRENDA







Notes:

- 1) Length of bars indicates screened or open interval elevation (Y-axis).
- 2) Water-level elevations used to plot X-position based on average of March and June 2012 rounds.
- 3) Water table line shows where water-level elevation equals screen elevation. Wells labeled in blue text with italics are considered water table wells.
- 4) Unit contacts and transmissive zone limits are approximate.

OAK GROVE VILLAGE WELL SUPERFUND SITE - OU2
FRANKLIN COUNTY, MISSOURI
PHASE I SITE CHARACTERIZATION SUMMARY

Relation of Head in Well to Screened Elevation

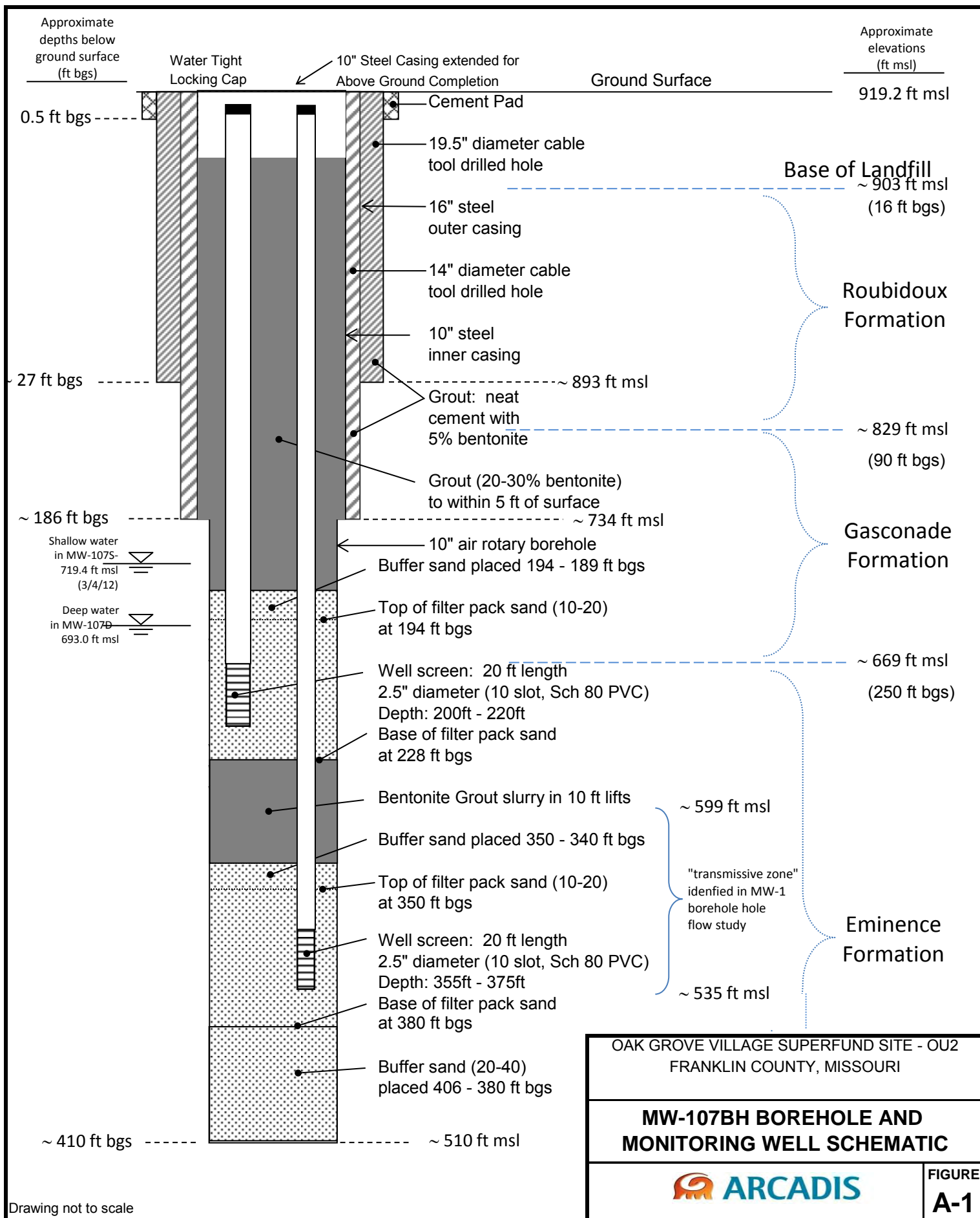


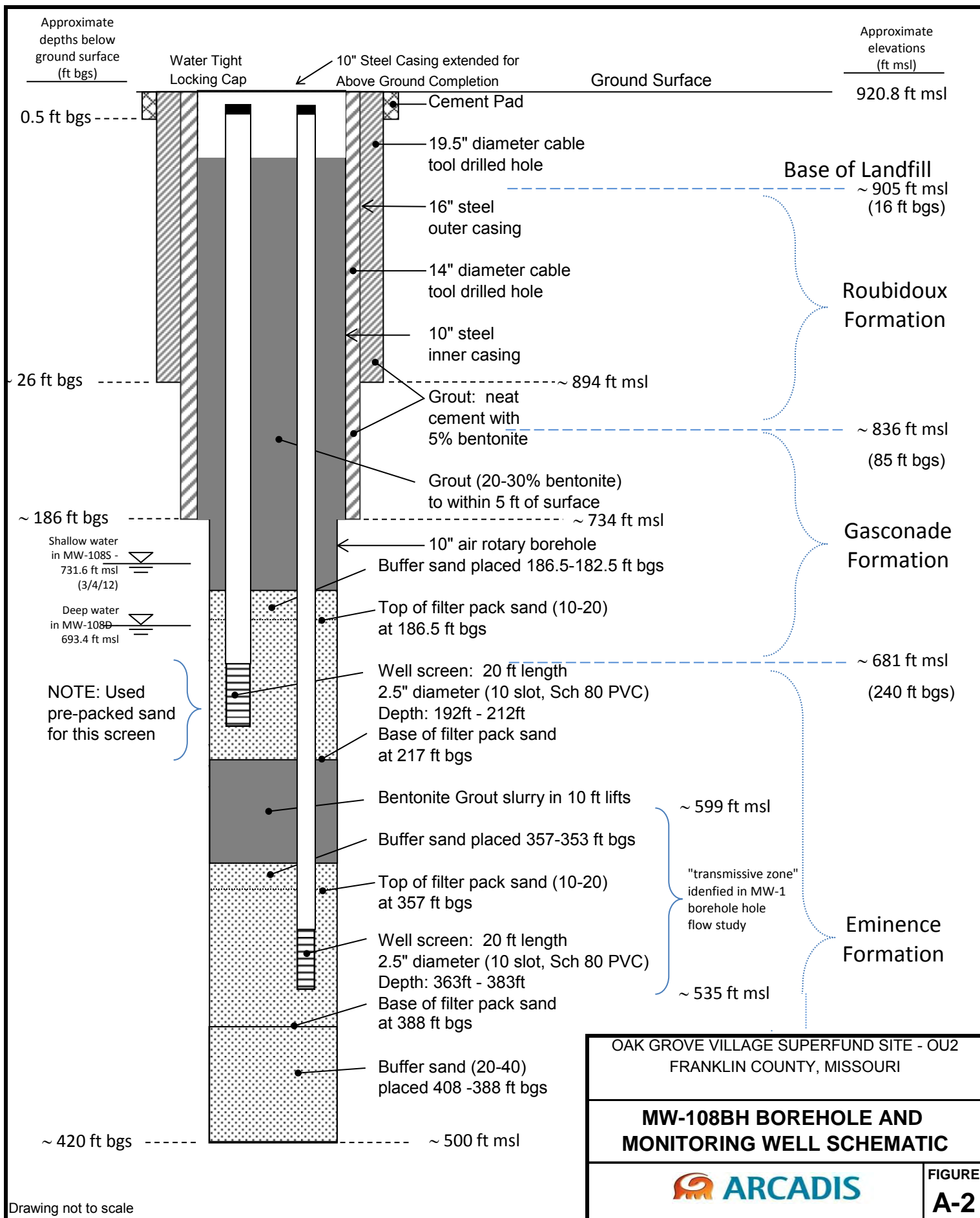
FIGURE
5-6

Appendices

Appendix A

Well Construction Logs
Geophysical Logging Logs
Lithologic Log







ARCADIS

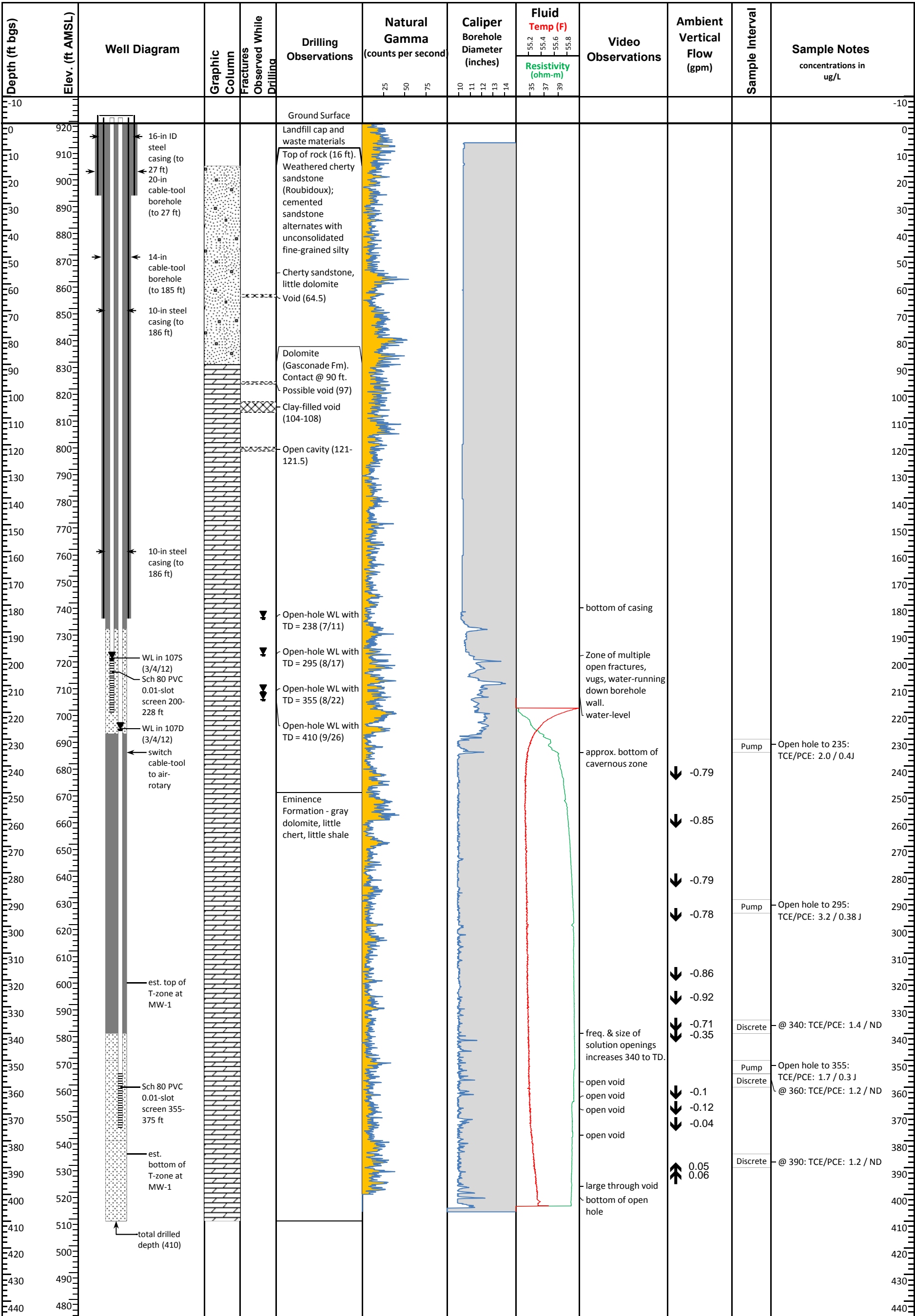
BOREHOLE TESTING SUMMARY LOG

Boring/Well ID: MW-107 S/D

Site: Oak Grove Village Landfill, MO
Client/Proj. TRW

Date 8/23/2011
Geologist: L Benolkin

Borehole Depth (ft bgs): 410
Surface Elevation (ft AMSL): 919.2



Notes: See well construction log for complete construction details. Sample results noted as "Discrete" collected as grab samples by point-sampling device with borehole open to total drilled depth. Sample results noted as "Pump" collected after purging borehole with drilled depth as posted. Geophysical logging performed by


Acronyms & Abbreviations: ft bgs = feet below ground surface; AMSL = above Mean Seal Level; SAA = same as above; NA = not available; SS = stainless steel; PVC = polyvinyl chloride; HPFM = heat-pulse flow meter; TD = total borehole depth

ARCADIS		BOREHOLE TESTING SUMMARY LOG						Boring/Well ID: MW-108 S/D				
Site: Oak Grove Village Landfill, MO		Date 9/1/2011		Borehole Depth (ft bgs): 420								
Client/Proj. TRW		Geologist: L Benolkin		Surface Elevation (ft AMSL): 920.8								
Depth (ft bgs)	Elev. (ft AMSL)	Well Diagram	Graphic Column	Fractures Observed While Drilling	Drilling Observations	Natural Gamma (counts per second)	Caliper Borehole Diameter (inches)	Fluid Temp (F)	Video Observations	Ambient Vertical Flow (gpm)	Sample Interval	Sample Notes concentrations in ug/L
								Resistivity (ohm-m)				
-10	930				Ground Surface							-10
0	920				Landfill cap and waste materials							0
10	910				Top of rock (14 ft). Weathered cherty sandstone (Roubidoux); cemented sandstone alternates with unconsolidated fine-grained silty					Flow rate exceeds HPFM range above 364 ft.		10
20	900									Black values are absolute (flow-meter baffles installed).		20
30	890									Green values are relative, measured using an under-sized baffle to reduce velocity.		30
40	880											40
50	870											50
60	860											60
70	850											70
80	840											80
90	830				Dolomite (Gasconade Fm). Contact @ 85 ft.							90
100	820				Clay-filled void (92-107); no fluid gain/loss.							100
110	810											110
120	800				Clay-filled void (123-127); no fluid gain/loss.							120
130	790				Open cavity (135-136); temporary circulation loss.							130
140	780				Open cavity (141-141.5); drill string drop							140
150	770											150
160	760				Clay-filled void (155.5-160); partial fluid loss							160
170	750											170
180	740								bottom of casing			180
190	730				Open-hole WL (TD = 235 on 3/16)				void; water running into well.			190
200	720				Open-hole WL (TD = 295 on 8/29)				start of cavernous zone			200
210	710				Open-hole WL (TD = 355 on 8/31)				water-level			210
220	700				Clay-filled void (207-214)							220
230	690				Open-hole WL (TD = 420 on 9/26)						Pump	Open hole to 235: TCE/PCE: 1.7 / 0.9J
240	680									↓ -0.05		240
250	670				Eminence Formation - gray dolomite, little chert, trace shale					↓ -0.07		250
260	660											260
270	650									↓ -0.08		270
280	640											280
290	630									↓ -0.08	Pump	Open hole to 295: TCE/PCE: 2.0 / 0.8 J
300	620											300
310	610									↓ -0.08		310
320	600									↓ -0.07		320
330	590								open fractures: 331, 336	↓ -0.06	Discrete	@ 340: TCE/PCE: 2.8 / 0.98 J
340	580									↓ -0.02		340
350	570								open void	↓ -0.02	Pump	Open hole to 355: TCE/PCE: 2.3 / 0.65 J
360	560								open void	↓ -0.54		360
370	550								open void	↓ -0.74	Discrete	@ 370: TCE/PCE: 3.3 / 1.2
380	540								through void			380
390	530								open void	↑ 0.02 0.02	Discrete	@ 390: TCE/PCE: 3.1 / 1.2
400	520								max depth reached by camera	↑ 0.06 0.02		400
410	510											410
420	500											420
430	490											430
440	480											440
Notes: See well construction log for complete construction details. Sample results noted as "Discrete" collected as grab samples by point-sampling device with borehole open to total drilled depth. Sample results noted as "Pump" collected after purging borehole with drilled depth as posted. Geophysical logging performed by												
Acronyms & Abbreviations: ft bgs = feet below ground surface; AMSL = above Mean Seal Level; SAA = same as above; NA = not available; SS = stainless steel; PVC = polyvinyl chloride; HPFM = heat-pulse flow meter; TD = total borehole depth												

Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


920	0		0-2 Topsoil of gravel; geofabric, grey clay		
			Trash with dirt		
915	5				
910	10				
905	15		ROUBIDOUX SAND very fine to fine grained, well sorted, pale brown (16YR6/3), dry		
			Sand, light brown (10YR6/3), loose, fine grained, well rounded, well sorted, clear quartz with some silt		
900	20		Sand as above with some medium grained		
895	25		Sand as above		
890	30		Silty sand, very pale brown, very fine to fine grained, 95% quartz sand, well rounded, well sorted, frosted, unconsolidated		
			As above		
885	35		As above		
880	40		As above - few small (<5 mm) pieces of consolidated sandstone		
			As above		

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs Geologist: Larry Benolkin	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig		

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


45	875		As above		
50	870		As above		
55	865		70% sand with some consolidated sandstone, as above, 30% chert, white aphanitic, tripolitic in part, porous in part		
60	860		70% weathered chert as above, 30% white to grey chert - aphanitic, conchoidal fracture, hard, some oolites in chert matrix		
65	855		80% weathered white chert, 20% chert cemented grain-supported sandstone fine grained, well sorted with white to clear chert cement		
70	850		70% - chert cemented sandstone as above, 20% weathered chert		
75	845		As above		
80	840		50% white weathered chert, 40% white to grey chert, 10% sandstone as above		
85	835		50% sandstone as above, 30%, white weathered chert; 20% white to grey chert		
90	830		90% white to light grey chert, vitreous, conchoidal fracture, hard - 10% white weathered chert		

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs Geologist: Larry Benolkin	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig		

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


90			GASCONADE DOLOMITE @ 90' Chert as above - few pieces show chert breccia		
825					
95			70% white weathered chert; 30% white to light grey chert		
			As above, few grains show dark iron/manganese staining		
820					
100			25% white weathered chert, 30% chert stained dark reddish brown with iron, weathered in appearance, 50% white, non-weathered chert		
815					
105			80% weathered chert, white with yellowish brown iron staining - soft to hard, pitted, porous in part, 20% light grey unweathered chert, aphanitic, fractured		
810					
110			As above - few grains stained dark brown with manganese		
			60% white to light grey chert, 40% weathered chert as above		
805					
115			As above		
800					
120			50% white weathered chert, 30% light grey to white chert, 20% pale brown dolostone		
			50% white to light grey chert as above, 20% pale brown dolostone, 30% weathered chert		
795					
125			50% pale brown dolostone, fine crystalline, medium hard, slightly calcareous, 30% weathered chert, white, pitted, some iron staining, 20% white to light grey unweathered chert		
790					
130			60% dolostone as above; 40% white to light grey chert		
785					
135			50% dolostone as above, 50% light grey to		

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs Geologist: Larry Benolkin	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig		

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description	
			Stratigraphic Description	Downhole Video Camera Sidehole Video Camera


780	140	white chert		
		60% white to grey aphanitic, angular chert, conchoidal fracture, 40% light brown dolostone, fine crystalline, hard		
775	145	60% very pale brown dolostone, fine crystalline, some sucrosic, hard, 40% white to grey chert, aphanitic		
		80% very pale brown dolostone, fine crystalline, hard, trace sucrosic, 20% white chert - few red clay balls, void (?)		
770	150	80% dolostone as above - some surfaces with dark reddish-brown crust; 20% light grey chert		
765	155	50% dolostone as above, 50% chert		
760	160	50% light brown dolostone, hard, 50% banded chert, white to grey		
755	165	60% pale to sand beige dolostone, 40% white to grey chert, some banded		
750	170	50% dolostone as above, 50% chert as above		
745	175	60% dolostone, pale to sand beige, hard; 40% chert, white to grey, angular, some banded		
		50% dolostone as above; 50% chert, white to grey banded; trace green shale	Base of 10-in casing @ 180 ft bgs	
740	180	50% dolostone, 50% chert, as above		

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


735 185		65% light brown, fine crystalline dolostone, 5% white to grey aphanitic chert; 30% cement grout	Slightly rugose @186 ft bgs	
730 190		60% dolostone as above; 30% chert as above; 10% neat cement		Horizontal fracture @193.2 ft bgs Horizontal fracture @197.1 ft bgs
725 195		70% dolostone, as above; 30% chert as above; trace cement		Vugs @199.1 ft bgs
720 200		80% light brown dolostone, hard, fine crystalline; 20% chert, variable from white opaque to grey translucent		
715 205		70% dolostone as above, 30% chert as above	Slightly enlarged borehole @205 ft bgs Water entering borehole below 208 ft bgs	
		60% dolostone as above; 40% chert as above		
710 210		40% dolostone as above; 60% chert, grey translucent hard, aphanitic, some banded	Water level @212.8 ft bgs	Water level @212.8 ft bgs
705 215		No sample	Banding @ 216 ft bgs	Chert band @215.3-218.3 ft bgs
700 220		No sample	Ovoid hole below 220 ft bgs	Fracture(?) @220.8 ft bgs Chert lenses @224.1-225.1 ft bgs
		90% light brown, fine crystalline dolostone; 10% white chert	Chert lens @223.2 ft bgs	
695 225		70% dolostone, as above; 30% chert mostly translucent grey, some opaque grey	Rugose @226 ft bgs	Vertical fracture @227.3-228.1 ft bgs
690				

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	


Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera

690 230		70% light brown fine crystalline dolostone; 30% chert, dark brown to black, opaque, hard, brittle	Chert or fracture(?) at 232 ft bgs	Vertical fracture @233-234.2 ft bgs
685 235		70% dolostone, white to light brown very fine crystalline; 30% grey chert	Smooth below 234 ft bgs	Vertical fracture @237-237.7 ft bgs Vertical fracture @238.7-239 ft bgs
680 240		EMINENE DOLOMITE @ 240'		Horizontal fracture @245.1 ft bgs
675 245		As above, with +trace (< 5%) light greenish grey (5BG6/1) shale		Horizontal fractures @246.9; 247; 248.4; and 249.9 ft bgs Vertical fracture @248.5-249.3 ft bgs
670 250		Shale as above, hard, non-calcareous, aphanitic, some embedded fine, well rounded, quartz sand	Some chatter @250 ft bgs	Horizontal fractures @250.2; 250.5; and 252.2 ft bgs
665 255		As above		Vertical fracture @258.7-259.1 ft bgs
660 260		As above		Vertical fracture @260.8-261.4 ft bgs
655 265		As above, less shale, trace black (v. dark brown) chert		"Shale(?) lens @266.0 ft bgs Enlarged horizontal bedding plane @268.7 ft bgs"
650 270		70% dolostone, white to light brown, fine crystalline, hard, 30% grey chert	Enlarged borehole @271.3 ft bgs	Vertical fracture @273.3-275.9 ft bgs Vuggy @277-277.8 ft bgs Enlarged horizontal bedding plane @279.3 ft bgs
645 275				

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	


Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description	
			Stratigraphic Description	Downhole Video Camera Sidehole Video Camera
275			As above	Horizontal fracture @280.4 ft bgs
640 280			As above	Vuggy @282.8-284.4 and 288.4 ft bgs Horizontal fractures @283.8 and 286.7 ft bgs
635 285			As above	
630 290			90% dolostone, light brown, fine crystalline, aphanitic; 10% grey chert, trace greenish grey shale, sandy in part, non-calcareous; trace fine to medium grained sandstone, sorted, well rounded, with dolomite cement	Rugose @297 ft bgs Green shale stringer @290.8 ft bgs Vuggy @297.7-299.3 ft bgs Drusy quartz-lined vug @299.9 ft bgs"
625 295			95% dolostone, light grey, fine crystalline to aphanitic, hard, irregular fracture	Ledge in borehole @304.2 ft bgs Vuggy @305.0-307.5 ft bgs Vuggy @308.5-309.5 ft bgs Vertical fracture @322-7-323.6 ft bgs
620 300				
615 305				
610 310			100% dolostone, light grey (5Y7/1) to grey (5Y6/1), fine crystalline, hard, uniform, occasional drusy surfaces, some iron staining	Rugose @322.7-325 ft bgs Rugose @327-331.2 ft bgs Sub-vertical fracture @334.4 ft bgs Rugose @337-339 ft bgs Rugose/enlarged @341.5-343.9 ft bgs Rugose @348.5-359.7 ft bgs Shale lamina @323.6 ft bgs Enlarged borehole @325.4 ft bgs Shale lamina @328.0 ft bgs Vuggy and intersecting fractures @328.2-330.5 ft bgs
605 315				
600 320				

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs Geologist: Larry Benolkin	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig		

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


595	325				
590	330				
585	335				Vuggy and intersecting fractures @332.9-335.9 ft bgs Filled(?) Vertical fracture @335.9-336.5 ft bgs Large horizontal fracture @336.9 ft bgs Vertical fracture @336.9-338.3 ft bgs Vuggy @339.5-342.3 ft bgs
580	340				Intersecting fractures @342.5-343.8 ft bgs
575	345				Vuggy @345.9-360.9 ft bgs hert lens @362.1 ft bgs Vuggy with intersected fractures @364.3-401.2 ft bgs
570	350	As above		Rugose @363.5-365.4 ft bgs	
565	355				
560	360				
555	365	as above, with trace of greenish shale		Rugose @367.5-370.7 ft bgs	Cavernous porosity @370.4-370.8

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875990.804 Easting: 637559.111 Casing Elevation: 919.2 Surface Elevation: 920 Borehole Depth: 410 ft bgs	Well ID: MW-107 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

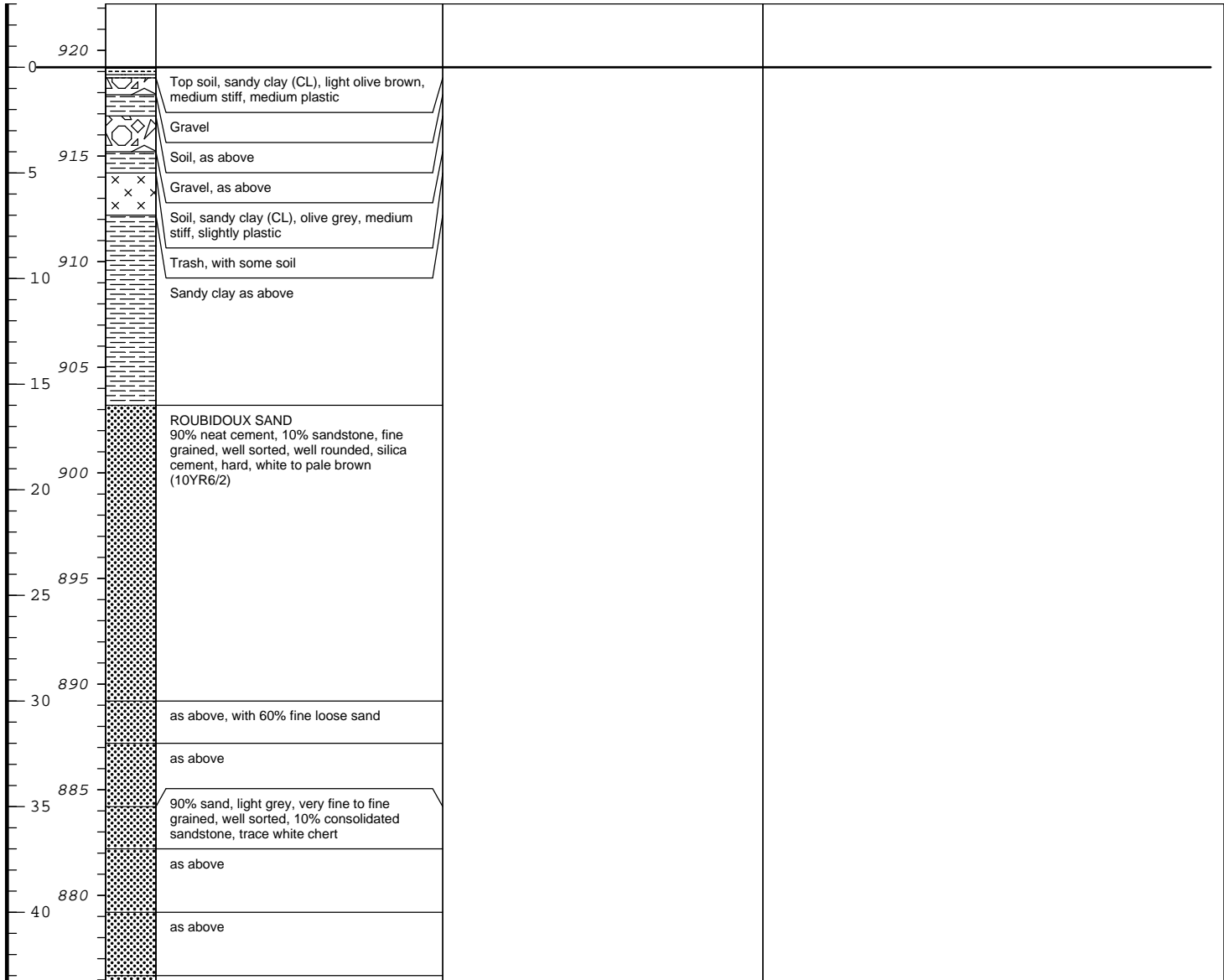
Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


550					
370		As above, with up to 5% grey (5Y5/1) chert as vug filling	Rugose @374.7-379.6 ft bgs		
545					
375		Dolostone, grey (5Y6/1), fine crystalline, uniform, hard, trace of limonite staining			
540					
380		As above			
535					
385		As above, trace of greenish shale	Rugose @387.3-389.3 ft bgs	Large vugs @383.6, @388.1, @397.8, and @399.7 ft bgs	
530					
390		As above, some drusy surfaces			
525					
395		As above	Rugose @394-397.1 ft bgs	Bottom in Shale chips @401.2 ft bgs	
520			Bottom in Shale chips @401.0 ft bgs		
400		As above, with one piece of pale yellow (2.5Y7/4) sandstone, fine grained, well sorted, hard, probable dolomite cement			
515					
405		98% Dolostone, light grey to grey, fine crystalline, hard, with up to 2% sandstone as above			
510					
410					

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875475.819 Easting: 637687.202 Casing Elevation: 923.8 Surface Elevation: 920.76 Borehole Depth: 410 ft bgs	Well ID: MW-108 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

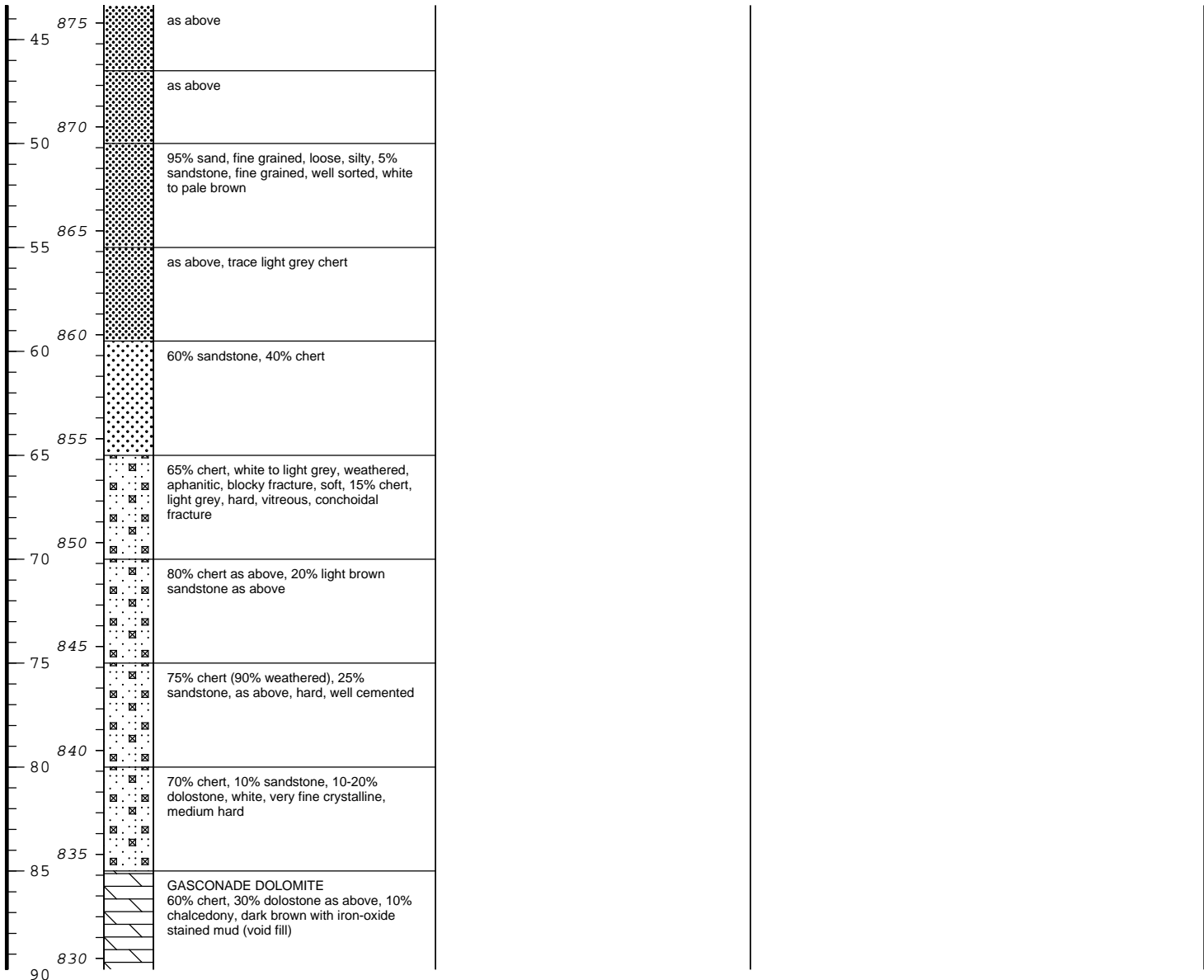
Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description	
			Stratigraphic Description	Downhole Video Camera Sidehole Video Camera




	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875475.819 Easting: 637687.202 Casing Elevation: 923.8 Surface Elevation: 920.76 Borehole Depth: 410 ft bgs Geologist: Larry Benolkin	Well ID: MW-108 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig		

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera




	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875475.819 Easting: 637687.202 Casing Elevation: 923.8 Surface Elevation: 920.76 Borehole Depth: 410 ft bgs	Well ID: MW-108 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


90			as above, with red mud balls		
825			as above, with reddish cast		
95					
820			60% light grey chert, some banded, 40% dolostone, pale brown to white		
100					
815			as above		
105			60% chert, mostly weathered white, some iron stained, some black, some grey, 40% dolostone, white to light grey, hard, mostly aphanitic, some recrystallized in sandy breccia		
810			35% chert, light grey to grey, aphanitic, angular, 25% chert, weathered, white, 40% dolostone, white to tan,		
110					
805			80% chert, predominantly light grey, some white, angular, 10-20% dolostone, as above		
115					
800			as above, includes 10% reddish mud balls, possible void from 123-127 ft bgs		
120					
795			80% chert, light grey to grey, banded. aphanitic, angular		
125					
790			50% chert, 50% dolostone, lost circulation		
130					
785			as above		
135					

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875475.819 Easting: 637687.202 Casing Elevation: 923.8 Surface Elevation: 920.76 Borehole Depth: 410 ft bgs Geologist: Larry Benolkin	Well ID: MW-108 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig		

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


780 140		as above, possible void 141-141.5 ft bgs		
775 145		as above		
770 150		90% dolostone, pale brown (10YR7/3), fine crystalline, sucrosic, hard, trace stylolites, 10% chert, white to light grey, aphanitic, angular		
765 155		as above, with large pieces of dolostone, void from 155.5-160 ft bgs		
760 160		90% dolostone, pale brown (10YR7/3), fine crystalline, sucrosic, hard, trace stylolites, 10% chert, white to light grey, aphanitic, angular		
755 165		50-60% dolostone, as above, 40-50 % chert as above		
750 170		as above		
745 175		65% dolostone, pale brown, sucrosic, 35% banded chert		
740 180		No sample - rig broke		
		no sample - set casing	Base of casing @ 183.4 ft bgs	Base of casing @ 183.5 ft bgs

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011	Northing: 875475.819	Well ID: MW-108
Drilling Company: S & S Drilling	Easting: 637687.202	
Driller's Name: Neil Stephens	Casing Elevation: 923.8	Client: TRW
Drilling Method: Cable Tool	Surface Elevation: 920.76	
	Borehole Depth: 410 ft bgs	Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


735 185		90% dolostone, light brown, fine crystalline; 10% cement grout		Vertical fracture @ 188.6-189.9 ft bgs
730 190		No sample	Water entering @ 192.0 ft bgs	Water dripping below 192 ft bgs
725 195		45% dolostone, light brown fine crystalline, 55% chert, light grey, aphanitic		Horizontal fracture @ 193.2 ft bgs Horizontal fracture @ 197.1 ft bgs Fractures, vuggy, irregular bedding @ 192.7-200 ft bgs
720 200		60% dolostone, light brown, 10% chert, light grey, 30% chert, white, medium soft, devitrified	Cavernous porosity @ 202.4-212 ft bgs	Vugs @ 199.1 ft bgs Sidewall not visible due to hole enlargement @ 200- 210.8 ft bgs
715 205		40% clay (CL), reddish brown, soft, medium plastic, 30% chert, light grey to white, some large pieces, vitreous, 30% dolostone, light brown, fine crystalline		
710 210		70% chert, light grey, 25% clay, as above, 5% dolostone, as above	Water level @ 212.9 ft bgs	Water level @ 212.8 ft bgs
705 215		80% chert, light grey, 15% clay, 5% dolostone		Water level @ 213.8 ft bgs irregular brecciated chert lenses @ 214.7-214.9 ft bgs
700 220		mud and large pieces of weathered chert in matrix of grey chert		Chert band @ 215.3-218.3 ft bgs
		90% chert with large pieces of chert and mud balls		Vuggy, with irregular chert lenses @ 216.7-220.9 ft bgs
695 225		90% chert		Fracture(?) @ 220.8 ft bgs
		as above		Chert lenses @ 224.1-225.1 ft bgs
		ran camera in hole at 235' bgs		
690				

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875475.819 Easting: 637687.202 Casing Elevation: 923.8 Surface Elevation: 920.76 Borehole Depth: 410 ft bgs Geologist: Larry Benolkin	Well ID: MW-108 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig		

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera


690 230					Vuggy with fractures @226.5-228.4 ft bgs
685 235					Vuggy @232.8-235.5 ft bgs Abundant chert and chert breccia @238-241.1 ft bgs with some large voids
680 240		80% Dolostone, light grey (2.5Y7/1), fine crystalline to aphanitic, hard; 20% Chert, grey (5Y5/1) to white (10YR8/1), aphanitic, hard, brittle; trace red (2.5YR5/6) iron stain material, med hard to soft; trace Shale, light greenish			Small vugs in more regular bedded dolostone
675 245		50% dolostone as above, 50% chert, dark grey (5Y4/1) to white, some banded, some with black stain, a few pieces show relict oolite structure			Chert rich, irregular bedding, with fractures and some Vugs @244-252 ft bgs
670 250		60% Dolostone as above, 40% Chert as above; 2 pieces of clear rhombic calcite crystals may indicate void filling			Shale lens @252.3 ft bgs
665 255		EMINENCE DOLOMITE As above; few chert pieces have a drusy surface indicating vugs; one piece of calcite as above			Shale lamina @256.3 ft bgs and @ 257.3 ft bgs
660 260		50% Dolostone as above; 45% Chert, light grey to white, some appears weathered, some with drusy surfaces; 5% Shale, greenish grey (10G5/1), soft, aphanitic			Vugs in fractured irregular bedded cherty dolostone @260-272 ft bgs
655 265		70% Dolostone as above; 25% Chert as above; 5% Shale as above, possible void 264.8-265.2 ft bgs			
650 270		80% Dolostone as above; 20% Chert as above; trace Shale as above			Enlarged voids from 275.3-286.5 ft bgs; Vuggy @ 277 ft bgs
645 275		85% Dolostone, grey (2.5Y6/1) to light grey (2.5Y7/1), some pieces with vuggy porosity, otherwise uniform, fine crystalline, hard; 15% Chert as above; trace Shale as above, trace red iron stain material			

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875475.819 Easting: 637687.202 Casing Elevation: 923.8 Surface Elevation: 920.76 Borehole Depth: 410 ft bgs	Well ID: MW-108 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description	
			Stratigraphic Description	Downhole Video Camera Sidehole Video Camera


275		(limonite?) medium hard, non-crystalline, earthy texture		Some stylolites @280 ft bgs
640		85% Dolostone as above; 10% Chert as above; 5% Shale, light greenish grey (10G8/1); aphanitic, hard, some with conchoidal fracture		
280		As above		
635		As above		Enlarged bedding plane @289.6 ft bgs Shale lenses @290.6 ft bgs and @291.3 ft bgs
285		As above		Vuggy from 290.8-293.2 ft bgs Collapsed zone with enlarged Vugs @294-295 ft bgs
630		As above		
290		Very poor recovery; 50% Dolostone, lightgrey (10YR7/1), fine crystalline to aphanitic, hard; 20% Dolostone, grey (5Y6/1) hard, fine crystalline; 30% Chert, dark grey (5Y4/1) to white (5Y8/1), aphanitic, hard, brittle, a few pieces show		
625		entrained oolites; trace Sandstone, light grey (5Y6/1), very fine grained, sorted, hard, dolomite cemented		Unconnected small vugs @299-307 ft bgs
295		40% grey Dolostone as above; 40% light grey Dolostone, as above, 10% Chert, dark grey (5Y4/1) to white, some banded, a few pieces show a relict oolite structure		Some filled vertical fractures @307.5-308 ft bgs
620		60% Dolostone, light grey to tan, fine crystalline, hard; 40% Dolostone, grey (5Y5/1), fine crystalline, hard; 5% Shale, light greenish grey (10G8/1), hard, aphanitic; 5% Chert, white to dark grey; trace dark red ferruginous material		Vuggy @312.3-315.1 ft bgs
300		50% Dolostone, light grey to tan, as above; 35% Dolostone, grey, as above; 5% chert, dark grey (5Y4/1) to white, a few pieces show a relict oolite structure; <1% Sandstone, light grey (5Y6/1), fine grained, well sorted, sub-rounded,		Vuggy @316.8-318.7 ft bgs Vuggy @319.7-320.5 ft bgs
615		tight, some glauconite; trace shale, as above		
305		55% dolostone, grey as above, 45% Dolostone, light grey to tan, as above, trace Shale as above, trace Chert, as above		Small unconnected vugs @322.9-324 ft bgs
610				
310				
605				
315				
600				
320				

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875475.819 Easting: 637687.202 Casing Elevation: 923.8 Surface Elevation: 920.76 Borehole Depth: 410 ft bgs	Well ID: MW-108 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description	
			Stratigraphic Description	Downhole Video Camera Sidehole Video Camera


595	325	70% grey Dolostone, as above; 30% light grey to tan Dolostone, as above; trace Chert		
590	330	95% grey Dolostone; 5% light grey to tan Dolostone; trace Chert		Large vug @326.7 Vuggy with fractures @328.4-329.8 ft bgs
585	335	as above		Vuggy with fractures @331.3-332.5 ft bgs
580	340	as above		Some vugs and fracturs @334-337.2 ft bgs Small vugs 339-340.9
575	345	90% grey Dolostone; 10% light grey Dolostone, possible void 344-344.5 ft bgs		
570	350	60% grey Dolostone; 40% light grey Dolostone		Small vugs @343.3-346.3 Vuggy with some fractures @347.9-353.8 ft bgs
565	355	50% grey Dolostone; 45% light grey Dolostone; 5% Chert, mostly white		Small vugs @353.8-357.2 ft bgs
560	360	60% Dolostone, light grey (10YR7/1) to tan, fine crystalline to aphanitic, hard; 40% Dolostone, grey (5Y6/1), hard, fine crystalline, trace Chert, dark grey (5Y4/1)		Vuggy with fracture @356.7-368 ft bgs
555	365	as above		Some large vugs @ 364.2
		as above		Green shale lamina @365.6 ft bgs

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 8/23/2011 Drilling Company: S & S Drilling Driller's Name: Neil Stephens Drilling Method: Cable Tool	Northing: 875475.819 Easting: 637687.202 Casing Elevation: 923.8 Surface Elevation: 920.76 Borehole Depth: 410 ft bgs	Well ID: MW-108 Client: TRW Location: Oak Grove Village Landfill
Rig Type: Cable Tool Rig	Geologist: Larry Benolkin	

Depth (ft. bgs)	Elevation (ft. AMSL)	Geologic Column	Video Description		
			Stratigraphic Description	Downhole Video Camera	Sidehole Video Camera

550	370	70% Dolostone, light grey to tan, fine crystalline, hard; 30% Dolostone, grey (5Y5/1), fine crystalline, hard; trace Chert, white to grey, some banded		Vugs and contorted bedding @370.6-373.6 ft bgs
545	375	as above		Collapse breccia with large vugs @373.6-380.1 ft bgs
540	380	as above	Cavernous porosity @ 378.2-383.3 ft bgs	
535	385	as above	Cavernous porosity @ 378.2-383.3 ft bgs	
530	390	as above		
525	395	85% Dolostone light grey to tan, hard, fine crystalline, some pieces appear weathered and show vuggy porosity; 15% grey Dolostone, as above		
520	400	80% Dolostone, light grey to tan, fine crystalline, hard; 20% Dolostone, grey, as above, trace grey Chert		
515	405	75% Dolostone, light grey to tan, fine crystalline, hard, 5% appears weathered with pitted surfaces stained by iron, brownish yellow (10YR6/6); 20% Dolostone, grey, fine crystalline, hard; 5% Chert, white to grey		
510	410			

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Appendix B

IDW Sample Results
Tables Waste Manifests



Table B-1. Investigation Derived Waste Analytical Results

	Location ID Sample ID Sample Date	IDW SOIL IDW SOIL-20101111 TCPLP 11/11/2010	IDW SOIL IDW SOIL-20101222 TCPLP 12/22/2010	IDW SOIL IDW SOIL-20101111 11/11/2010	IDW-MW-107 IDW-MW-107A(20110712) 7/12/2011	IDW-MW-107 IDW-MW-107B(20110712) 7/12/2011	IDW-MW-107 IDW-MW-107C(20110830) 8/30/2011	IDW-MW-107 IDW-MW-107D(20110830) 8/30/2011	IDW-MW-108 IDW-MW-108A(20110517) 5/17/2011	IDW-MW-108 IDW-MW-108B(20110518) 5/17/2011	IDW-MW-108 IDW-MW-108C(20110901) 9/1/2011	IDW-MW-108 IDW-MW-108D(20110901) 9/1/2011
Analytical Method Preferred Name Chemical Name	Unit											
VOCs-TCLP												
1,1-DICHLOROETHENE	mg/L	< 0.07 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
1,2-DICHLOROETHANE	mg/L	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
2-BUTANONE (MEK)	mg/L	< 0.25 U	--	--	< 0.25 U*	< 0.25 U*	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
BENZENE	mg/L	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
CARBON TETRACHLORIDE	mg/L	< 0.025 U	--	--	< 0.025 U*	< 0.025 U*	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
CHLOROBENZENE	mg/L	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
CHLOROFORM	mg/L	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
TETRACHLOROETHANE	mg/L	< 0.07 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
TRICHLOROETHENE	mg/L	< 0.05 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
VINYL CHLORIDE	mg/L	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Metals-TCLP												
Arsenic	mg/L	--	< 0.5 U	--	< 0.5 U	< 0.5 U	0.0033 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
BARIUM	mg/L	--	< 10 U	--	0.12 JB	0.10 JB	1.6 JB	2.4 JB	0.14 JB	0.37 JB	0.15 JB	2.9 JB
Cadmium	mg/L	--	< 0.1 U	--	0.0054 J	0.0019 J	< 0.1 U	< 0.1 U	0.0056 J	0.0020 J	< 0.1 U	< 0.1 U
CHROMIUM	mg/L	--	< 0.5 U	--	0.0022 JB	< 0.5 U*	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
LEAD	mg/L	--	< 0.5 U	--	0.0027 JB	0.0033 JB	< 0.5 U	0.0022 J	0.023 J	0.0021 J	0.0040 J	0.0079 J
Mercury	mg/L	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 J	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
Selenium	mg/L	--	< 0.25 U	--	0.0049 JB	< 0.25 U	< 0.25 U	0.0043 J	0.0069 JB	0.0055 JB	< 0.25 U	< 0.25 U
Silver	mg/L	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
VOCs - Non-TCLP												
1,1,1,2-TETRACHLOROETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,1,1-TRICHLOROETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,1,2-TRICHLOROETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,1-DICHLOROETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,1-DICHLOROETHENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,1-DICHLOROPROPENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,2,3-TRICHLOROBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,2,3-TRICHLOROPROPANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,2,4-TRICHLOROBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,2,4-TRIMETHYLBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,2-DIBROMOETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,2-DICHLOROBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,2-DICHLOROETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,2-DICHLOROPROPANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,3,5-TRIMETHYLBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,3-DICHLOROBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,3-DICHLOROPROPANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
1,4-DICHLOROBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
2,2-DICHLOROPROPANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U*	< 5.6 U*
2-CHLOROTOLUENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
2-PHENYLBUTANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
4-CHLOROTOLUENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
BENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
BROMOBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
BROMODICHLOROMETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
BROMOFORM	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
BROMOMETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
CARBON TETRACHLORIDE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
CHLOROBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
CHLOROBROMOMETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
CHLOROETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U*	< 6.9 U*	< 5.9 U	< 5.6 U
CHLOROFORM	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
CHLOROMETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
CIS-1,2-DICHLOROETHENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
CIS-1,3-DICHLOROPROPENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
CYMENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
DIBROMOCHLOROMETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
DIBROMOMETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
Freon-12 (DICHLORODIFLUOROMETHANE)	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U*	< 6.9 U*	< 5.9 U	< 5.6 U
Freon-21 (DICHLOROMONOFUOROMETHANE)	ug/kg	--	--	< 11 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 14 U	< 12 U	< 11 U
ETHYLBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
HEXACHLORO-1,3-BUTADIENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
ISOPROPYLBENZENE (Cumene)	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
M/P XYLENE	ug/kg	--	--	< 11 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 14 U	< 12 U	< 11 U
METHYLENE CHLORIDE	ug/kg	--	--	< 5.7 U	1.7 JB	0.81 JB	< 5.8 U	< 5.8 U	4.2 JB	4.7 JB	2.5 J	< 5.6 U
NAPHTHALENE	ug/kg	--	71	< 5.9 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
N-BUTYL BENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
N-PROPYL BENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
O-XYLENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
STYRENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
TERT-BUTYLBENZENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
TETRACHLOROETHANE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
TOLUENE	ug/kg	--	--	9.4	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	0.51 JB	0.69 JB	< 5.9 U	< 5.6 U



Table B-1. Investigation Derived Waste Analytical Results

	Location ID Sample ID Sample Date	IDW SOIL IDW SOIL-20101111 TCLP 11/11/2010	IDW SOIL IDW SOIL-20101222 TCLP 12/22/2010	IDW SOIL IDW SOIL-20101111 11/11/2010	IDW-MW-107 IDW-MW-107A(20110712) 7/12/2011	IDW-MW-107 IDW-MW-107B(20110712) 7/12/2011	IDW-MW-107 IDW-MW-107C(20110830) 8/30/2011	IDW-MW-107 IDW-MW-107D(20110830) 8/30/2011	IDW-MW-108 IDW-MW-108A(20110517) 5/17/2011	IDW-MW-108 IDW-MW-108B(20110518) 5/17/2011	IDW-MW-108 IDW-MW-108C(20110901) 9/1/2011	IDW-MW-108 IDW-MW-108D(20110901) 9/1/2011
TRANS-1,2-DICHLOROETHENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
TRANS-1,3-DICHLOROPROPENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
TRICHLOROETHENE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
Freon-11 (TRICHLOROFLUOROMETHANE)	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
VINYL CHLORIDE	ug/kg	--	--	< 5.7 U	< 5.9 U	< 5.8 U	< 5.8 U	< 5.8 U	< 6.1 U	< 6.9 U	< 5.9 U	< 5.6 U
Arsenic	ug/kg	--	--	5.1	0.0032	0.0031	3200	1500	2.1	7.5	5700	3500
BARIUM	ug/kg	--	--	209	0.0072 JB	0.012 JB	82,000 B	150,000 B	6.9 JB	31 B	8900 J	230000
Cadmium	ug/kg	--	--	< 0.57 U	0.00023 J	0.000062 J	120 J	260 J	0.35 J	0.19 J	240 J	88 J
CHROMIUM	ug/kg	--	--	31.8	0.019	0.002	750 J	1200	2.3	8.8	1900	640 J
LEAD	ug/kg	--	--	19.3	0.0042	0.0059	2900	2500	14	32	20000	43000
Mercury	ug/kg	--	--	< 0.11 U	< 0.00011 U	< 0.00011 U	< 78 U	< 110 U	< 0.076 U	0.024 J	< 110 U	< 85 U
Selenium	ug/kg	--	--	< 0.57 U	< 0.00057 U	< 0.00048 U	< 500 U	< 480 U	< 0.43 U	< 0.58 U	< 590 U	< 480 U
Silver	ug/kg	--	--	< 1.1 U	< 0.0011 U	< 0.00096 U	< 1000 U	< 950 U	< 0.85 U	< 1.2 U	< 1200 U	< 970 U
Paint Filter Test	none	--	--	NEG	POS	POS	POS	POS	neg	neg	NA	NA
Percent Solids	%	--	--	88.1	--	--	--	--	--	--	--	--

Pos/Neg Positive or negative result
NA Not Analyzed
ug/kg Microgram per kilogram
mg/L Milligrams per liter
J Estimated value
B Analyte detected in Blank
U Not detected above reporting limit



B-2. Frac Tank Water Sample Results

	Location ID Sample ID Sample Date	IDW-FRAC T IDW-FRAC T(20110912) 9/12/2011
Analytical Method Preferred Name Chemical Name	Unit	
VOCs		
1,1,1-TRICHLOROETHANE	ug/l	< 1 U
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1 U
1,1,2-TRICHLOROETHANE	ug/l	< 1 U
1,1-DICHLOROETHANE	ug/l	< 1 U
1,1-DICHLOROETHENE	ug/l	< 1 U
1,2-DICHLOROETHANE	ug/l	< 1 U
1,2-DICHLOROETHENE (TOTAL)	ug/l	< 1 U
1,2-DICHLOROPROPANE	ug/l	< 1 U
ACROLEIN	ug/l	1.2 J
ACRYLONITRILE	ug/l	< 20 U
BENZENE	ug/l	< 1 U
BROMODICHLOROMETHANE	ug/l	< 1 U
BROMOFORM	ug/l	< 1 U
BROMOMETHANE	ug/l	< 2 U
CARBON TETRACHLORIDE	ug/l	< 1 U
CHLOROBENZENE	ug/l	< 1 U
CHLOROETHANE	ug/l	< 2 U
CHLOROFORM	ug/l	< 1 U
CHLOROMETHANE	ug/l	< 2 U
CIS-1,2-DICHLOROETHENE	ug/l	< 0.5 U
CIS-1,3-DICHLOROPROPENE	ug/l	< 1 U
DIBROMOCHLOROMETHANE	ug/l	< 1 U
ETHYLBENZENE	ug/l	< 1 U
M/P XYLENE	ug/l	< 2 U
METHYLENE CHLORIDE	ug/l	< 2 U
O-XYLENE	ug/l	< 1 U
Tetrachloroethene	ug/l	< 1 U
TOLUENE	ug/l	< 1 U
TRANS-1,2-DICHLOROETHENE	ug/l	< 0.5 U
TRANS-1,3-DICHLOROPROPENE	ug/l	< 1 U
TRICHLOROETHENE	ug/l	< 1 U
VINYL CHLORIDE	ug/l	< 2 U
Xylenes (total)	ug/l	< 2 U
Metals		
Aluminum	ug/l	< 200 U
Arsenic	ug/l	3.7 J
Cadmium	ug/l	< 2 U
CHROMIUM	ug/l	< 5 U
Copper	ug/l	< 25 U
LEAD	ug/l	< 3 U
Mercury	ug/l	< 0.2 U
NICKEL	ug/l	10 J
Silver	ug/l	< 5 U
ZINC	ug/l	7.9 JB
Chromium		
Cr (III)	mg/l	< 0.02 U
Cr (VI)	mg/l	< 0.02 U

ug/L Micrograms per liter

mg/L Milligrams per liter

J Estimated value

B Analyte detected in Blank

U Not detected above reporting limit

Prairie Valley Landfill

Prairie Valley Landfill
MISSOURI DNR APPROVED
3975 Hwy. 19 North
Cuba, MO 65453

Ticket #	Date	Time	Truck
76,096	03/07/2011	12:34	SS5

Customer Info
S & S Drilling
3857 HWY H
LEASBURG, MO

Qty	Unit	Product	Price	Amount
4.57	Ton	WASTE	41.08	187.74
		DNR Tax	2.11	9.64
Total Due				\$197.38

	Pounds	Tons
Gross:	23,060	11.53
Tare:	13,920	6.96
Net:	9,140	4.57

Purchase Order

Signature

Prairie Valley Landfill

Prairie Valley Landfill
MISSOURI DNR APPROVED
3975 Hwy. 19 North
Cuba, MO 65453

Ticket #	Date	Time	Truck
72,533	09/30/2010	10:43	SS5

Customer Info
S & S Drilling
3857 HWY H
LEASBURG, MO

Qty	Unit	Product	Price	Amount
6.25	Ton	WASTE	40.08	250.50
		DNR Tax	2.11	13.19
Total Due				\$263.69

	Pounds	Tons
Gross:	29,500	14.75
Tare:	17,000	8.50
Net:	12,500	6.25

Purchase Order

Signature

FR 913 492 0902

Prairie Valley Landfill

Prairie Valley Landfill
MISSOURI DNR APPROVED

3975 Hwy. 19 North
Cuba, MO 65453

Ticket #	Date	Time	Truck
80,948	08/29/2011	8:40	043

Customer Info
Swinger Sanitation
11153 Hwy 19 S
Cuba, MO 65453

Qty	Unit	Product	Price	Amount
7.03	Ton	TRASHTK		
		DNR Tax		
Total Due				

	Pounds	Tons
Gross:	46,180	23.09
Tare:	32,120	16.06
Net:	14,060	7.03

Purchase Order 20YD S&S DRILLING

Signature

Prairie Valley Landfill

Prairie Valley Landfill
MISSOURI DNR APPROVED

3975 Hwy. 19 North
Cuba, MO 65453

Ticket #	Date	Time	Truck
79,486	07/11/2011	9:07	038

Customer Info
Swinger Sanitation
11153 Hwy 19 S
Cuba, MO 65453

Qty	Unit	Product	Price	Amount
13.80	Ton	TRASHYK		
		DNR Tax		
Total Due				

	Pounds	Tons
Gross:	58,860	29.43
Tare:	31,260	15.63
Net:	27,600	13.80

Purchase Order 20 S&S DRILLING

Signature

Prairie Valley Landfill

Prairie Valley Landfill
MISSOURI DNR APPROVED

3975 Hwy. 19 North
Cuba, MO 65453

Ticket #	Date	Time	Truck
81,274	09/08/2011	13:14	35

Customer Info		Qty	Unit	Product	Price	Amount
Swinger Sanitation		4.96	Ton	SP WASTE		
11153 Hwy 19 S				DNR Tax		
Cuba, MO 65453						
				Total Due		

	Pounds	Tons
Gross:	42,760	21.38
Tare:	32,840	16.42
Net:	9,920	4.96

Purchase Order 20 S&S DRILLING /B

Signature

Prairie Valley Landfill

Prairie Valley Landfill
MISSOURI DNR APPROVED

3975 Hwy. 19 North
Cuba, MO 65453

Ticket #	Date	Time	Truck
79,495	07/11/2011	10:22	038

Customer Info		Qty	Unit	Product	Price	Amount
Swinger Sanitation		12.13	Ton	TRASHTK		
11153 Hwy 19 S				DNR Tax		
Cuba, MO 65453						
				Total Due		

	Pounds	Tons
Gross:	55,820	27.91
Tare:	31,560	15.78
Net:	24,260	12.13

Purchase Order 20 S&S DRILLING

Signature

Appendix C

Trend Analysis Tables
And Charts

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A1: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW 101

MW-101						
Date	TCE (ug/L)	cis-1,2 DCE (ug/L)	Vinyl Chloride (ug/L)	Freon 12 (ug/L)	Freon 21 (ug/L)	Freon 11 (ug/L)
5/23/1992	4.0	ND				
7/22/1992	ND	ND				
2/13/1993	ND	ND		ND	30.0	51.0
8/30/1993	4.2	ND		ND	26.0	31.0
5/24/1994	1.9	ND		ND	18.6	26.2
9/6/1994	3.7	ND		ND	23.7	43.8
3/24/1995	2.1	ND		2.1	16.3	26.8
6/28/1995	2.2	ND		1.9	19.4	24.8
9/15/1995	3.7	ND		3.0	22.5	32.4
12/18/1995	4.1	ND		4.9	39.8	42.3
5/3/1996	3.2	ND		4.8	25.5	32.9
6/23/1997	ND	ND				
7/22/1998	3.0	ND				
6/29/1999	2.3	ND				
5/22/2000	3.8	ND				
5/14/2002	1.2	0.29				
5/26/2004	1.4	ND				
4/26/2006	2.4	0.69				20.0
4/11/2008	0.6	ND		0.99		9.4
3/7/2012	2.2	0.73	ND	2.5	24.0	22.0
6/22/2012	1.8	ND	ND	2.8	20.0	18.0

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A2: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW 102A

[illegible]

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A3: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW 102B

[illegible]

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A4: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW 103

MW-103						
Date	TCE (ug/L)	cis-1,2 DCE (ug/L)	Vinyl Chloride (ug/L)	Freon 12 (ug/L)	Freon 21 (ug/L)	Freon 11 (ug/L)
5/20/1992	ND	ND				
7/22/1992	ND	ND				
2/11/1993	ND	ND		ND	ND	ND
8/30/1993	ND	ND		ND	5.6	5.6
5/24/1994	ND	ND		4.7	24.4	24.4
9/6/1994	ND	ND		3.6	37.5	37.5
3/29/1995	ND	ND		7.7	43.3	43.3
6/28/1995	ND	ND		6.0	42.0	42.0
9/28/1995	ND	ND		6.1	54.2	54.2
12/18/1995	ND	ND		7.5	88.8	88.8
5/3/1996	ND	ND		10.1	74.1	74.1
6/24/1997	ND	ND				
7/23/1998	1.0	ND				
6/30/1999	0.5	ND				
5/23/2000	ND	ND				
5/13/2002	0.55	ND				
5/26/2004	0.44	ND				
4/27/2006	0.63	ND		6.7		150.0
4/11/2008	ND	ND		1.9		76.0
3/8/2012	0.77	ND	ND	5.9	150.0	130.0
6/19/2012	0.69	ND	ND	10.0	130.0	130.0

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A5: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW 104

[illegible]

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A6: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW 105

MW-105						
Date	TCE (ug/L)	cis-1,2 DCE (ug/L)	Vinyl Chloride (ug/L)	Freon 12 (ug/L)	Freon 21 (ug/L)	Freon 11 (ug/L)
5/24/1992	6.0	ND				
7/22/1992	ND	ND				
2/2/1993	ND	ND			320.0	89.0
8/30/1993	ND	ND			120.0	ND
5/24/1994	2.5	ND		2.7	84.1	31.0
9/6/1994	4.3	ND		ND	114.0	50.6
3/29/1995	3.6	ND		4.4	121.0	44.2
6/28/1995	2.6	ND		2.3	88.8	29.5
9/22/1995	5.4	ND		2.8	104.0	26.7
12/18/1995	2.9	ND		3.6	114.0	25.6
5/3/1996	4.8	ND		7.7	28.9	197.0
6/23/1997	ND	ND				
7/22/1998	4.0	ND				
6/29/1999	3.9	ND				
5/23/2000	3.0	ND				
5/13/2002	2.5	0.47				
5/26/2004	ND	0.47				
4/26/2006	2.4	ND		3.2		18.0
4/11/2008	1.1	0.24		1.5		7.4
3/7/2012	1.1	0.28	ND	1.7	45.0	8.4
6/19/2012	1.0	ND	ND	1.4	40.0	7.6

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A7: Summary of Detected Groundwater Analyses, Sullivan Landfill - VOSS

VOSS						
Date	TCE (ug/L)	cis-1,2 DCE (ug/L)	Vinyl Chloride (ug/L)	Freon 12 (ug/L)	Freon 21 (ug/L)	Freon 11 (ug/L)
2/2/1993	ND	ND			150.0	120.0
8/31/1993	ND	ND		ND	19.0	15.0
5/24/1994	2.5	ND		3.9	70.0	73.9
9/6/1994	2.4	ND		3.8	66.7	ND
3/29/1995	2.8	ND		4.7	76.7	70.1
6/28/1995	2.7	ND		5.2	97.4	90.3
9/22/1995	2.8	ND		5.7	80.8	81.4
12/18/1995	3.1	ND		7.0	161.0	88.7
5/3/1996	3.4	ND		8.7	192.0	92.7
6/23/1997	ND	ND				
7/22/1998	3.0	ND				
6/30/1999	2.6	ND				
5/23/2000	1.6	ND				
5/14/2002	3.3	0.24				
5/26/2004	3.6	0.28				
4/26/2006	4.0	ND		8.0	ND	93.0
4/9/2008	2.4	ND		4.0	ND	62.0
3/9/2012	1.8	ND	ND	3.1	68.0	40.0
6/21/2012	2.0	ND	ND	3.7	91.0	43.0

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A8: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW-107S

[illegible]

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A9: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW-107D

[illegible]

Notes: ND = Not Detected
= Not Analyzed

Phase I - Site Characterization Report

TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

Table A10: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW-108S

[illegible]

Notes: ND = Not Detected
= Not Analyzed

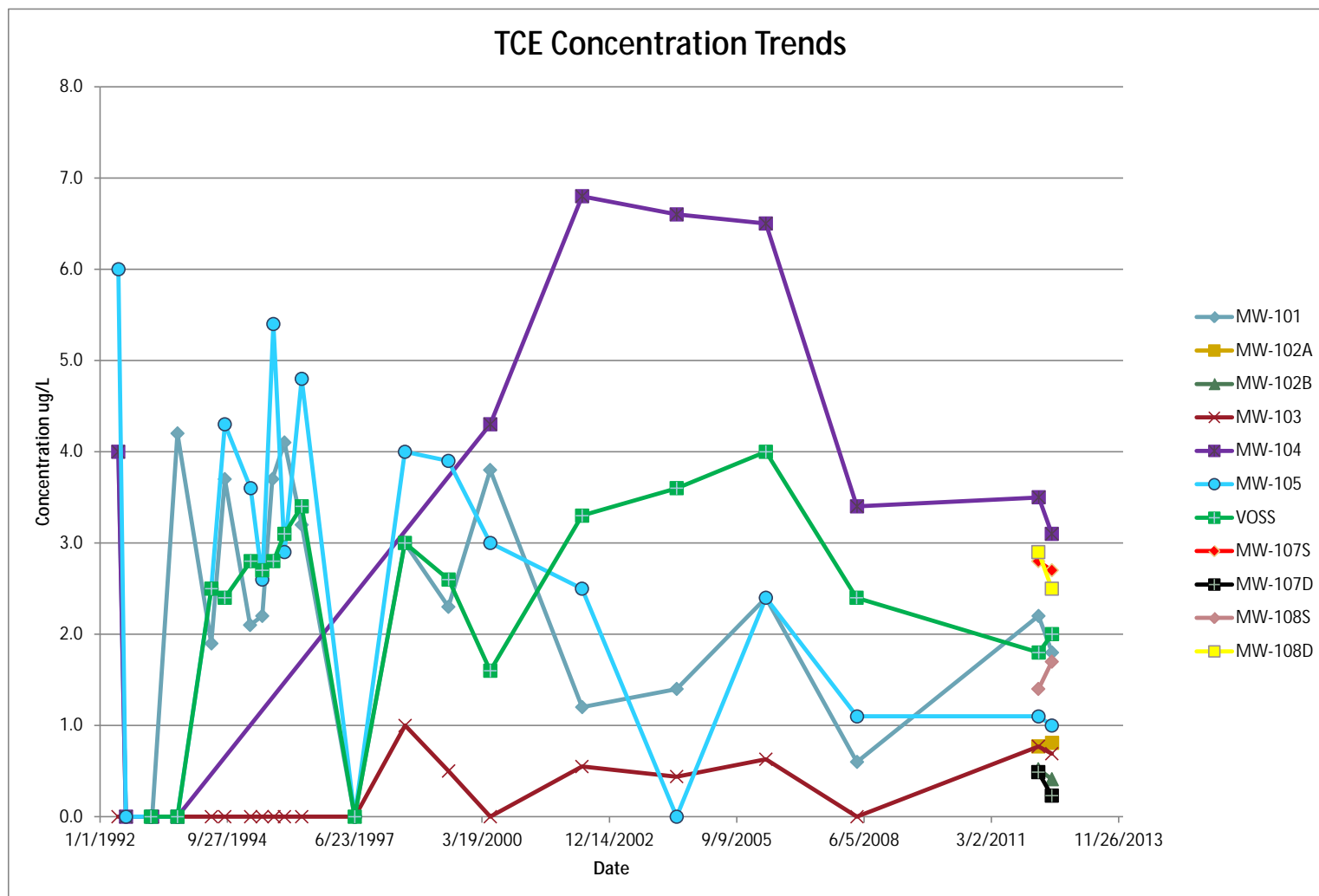
Phase I - Site Characterization Report

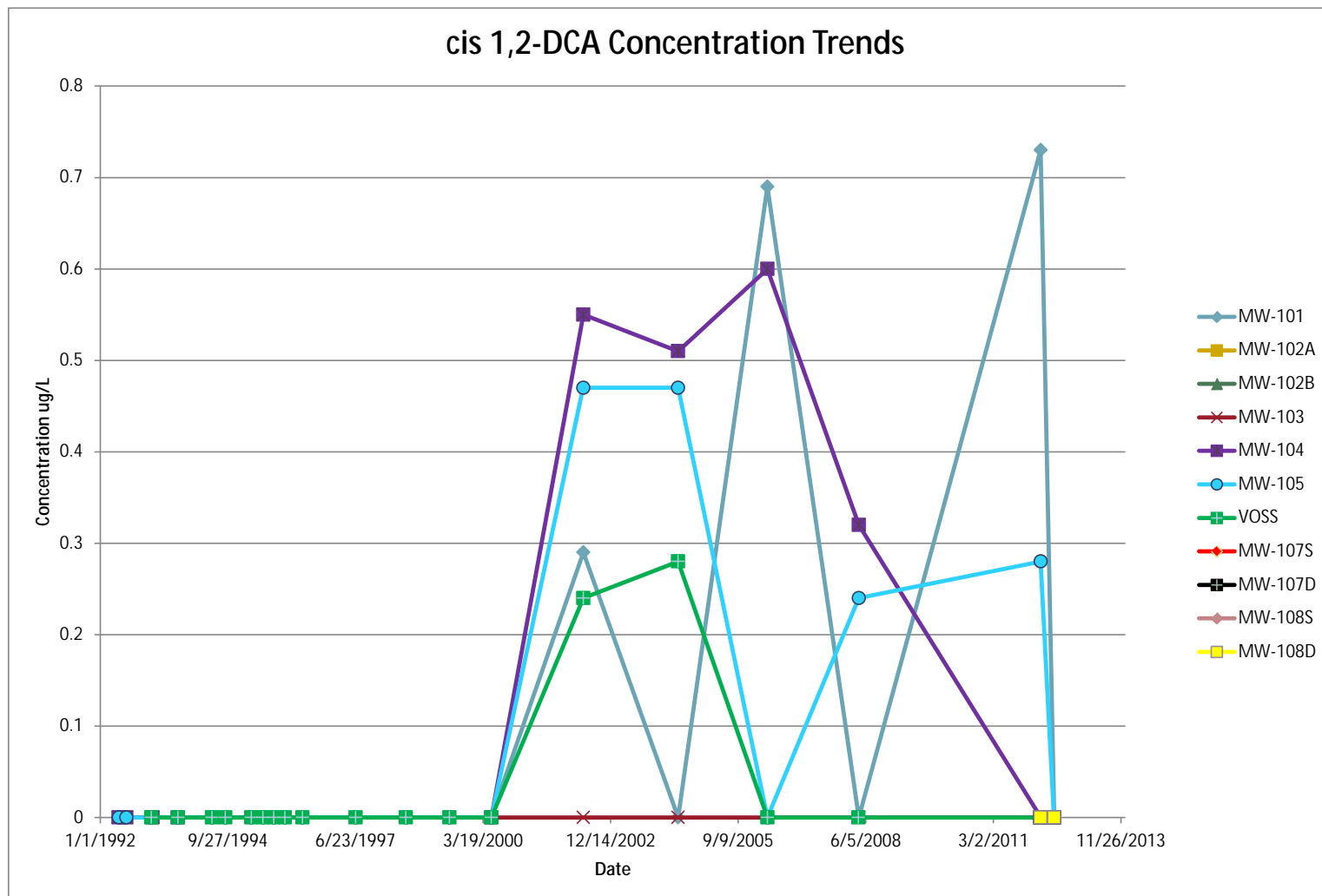
TRW Automotives U.S. LLC
Oak Grove Village Well Superfund Site
OU 2 - City of Sullivan Landfill
Franklin County, Missouri

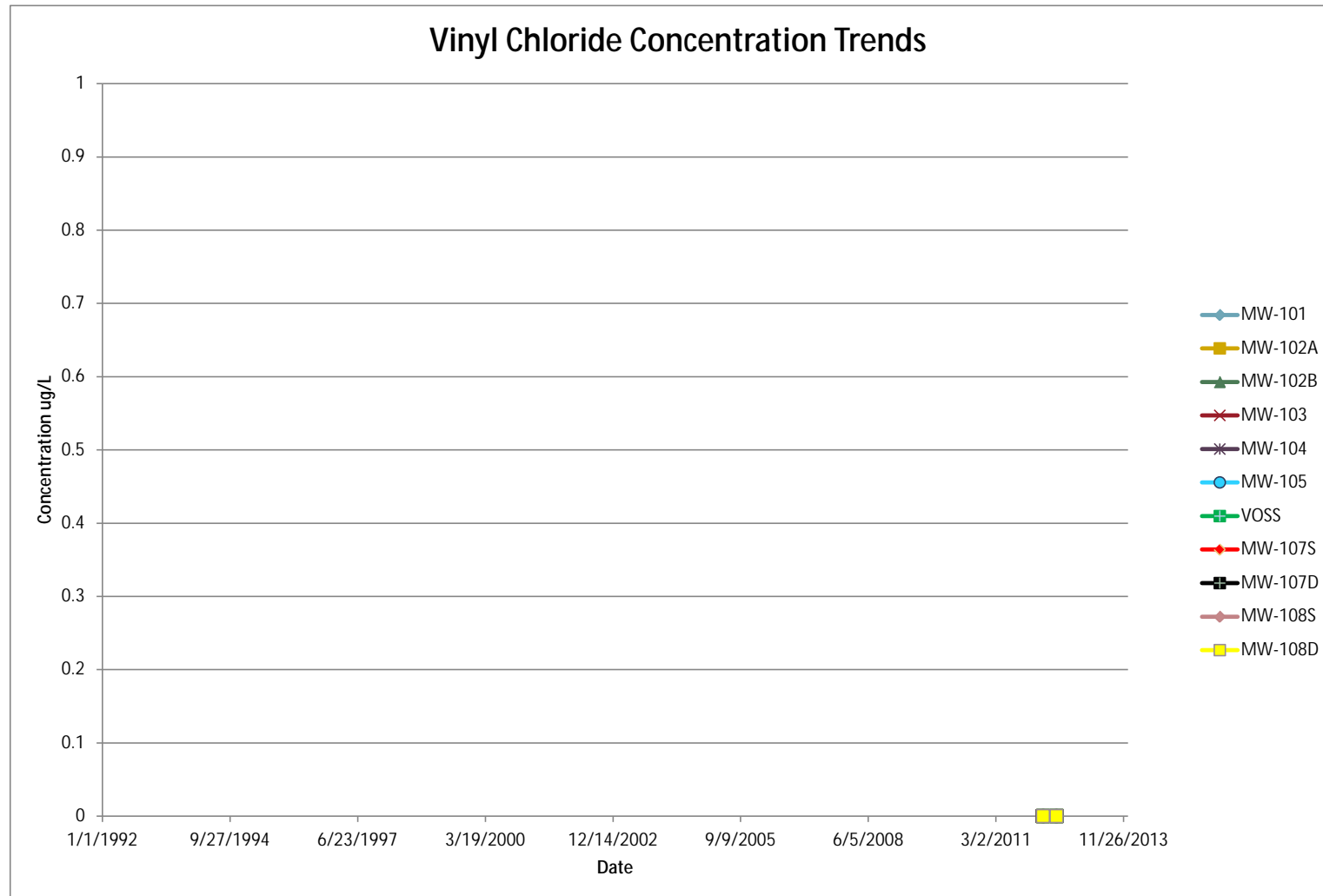
Table A11: Summary of Detected Groundwater Analyses, Sullivan Landfill - MW-108D

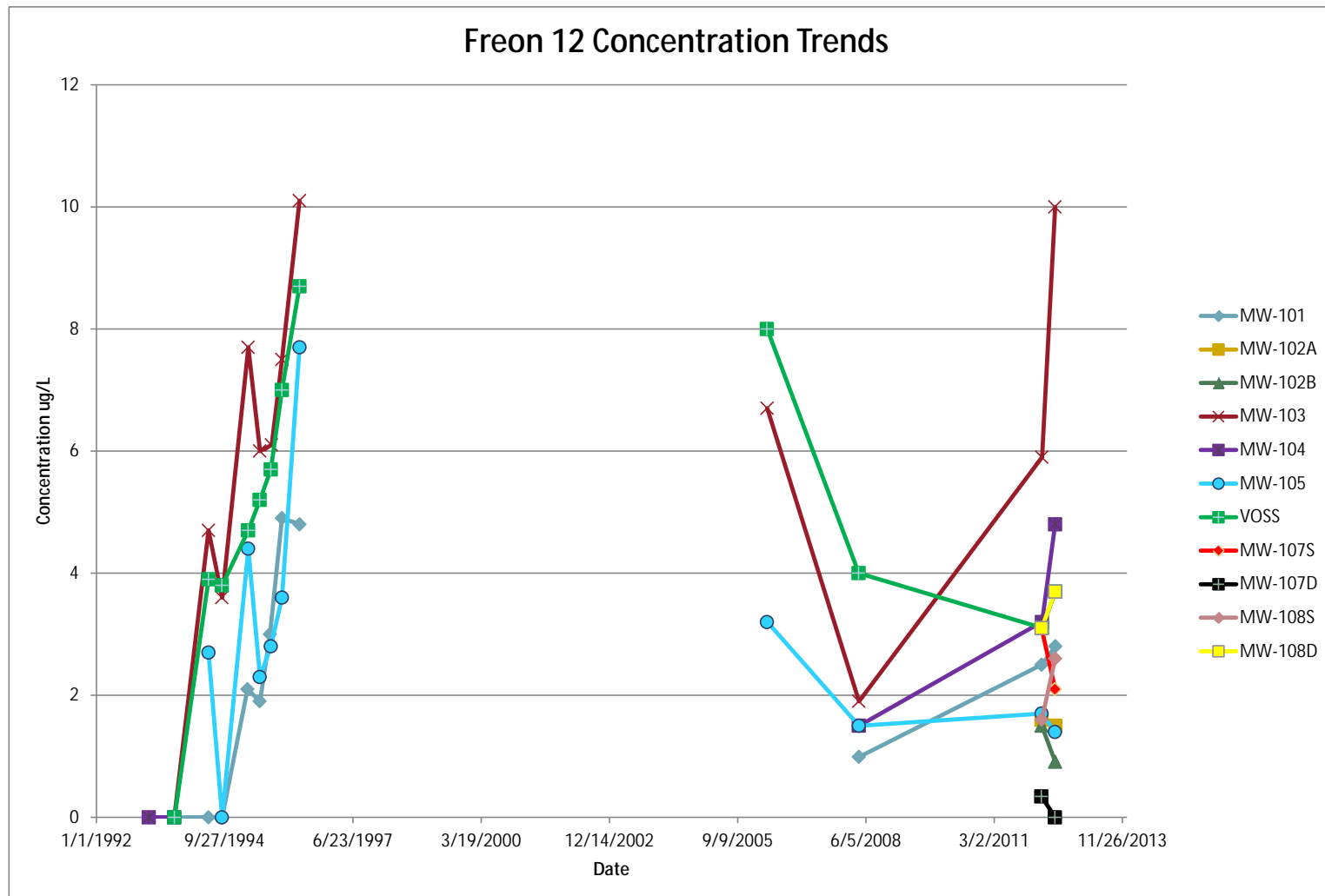
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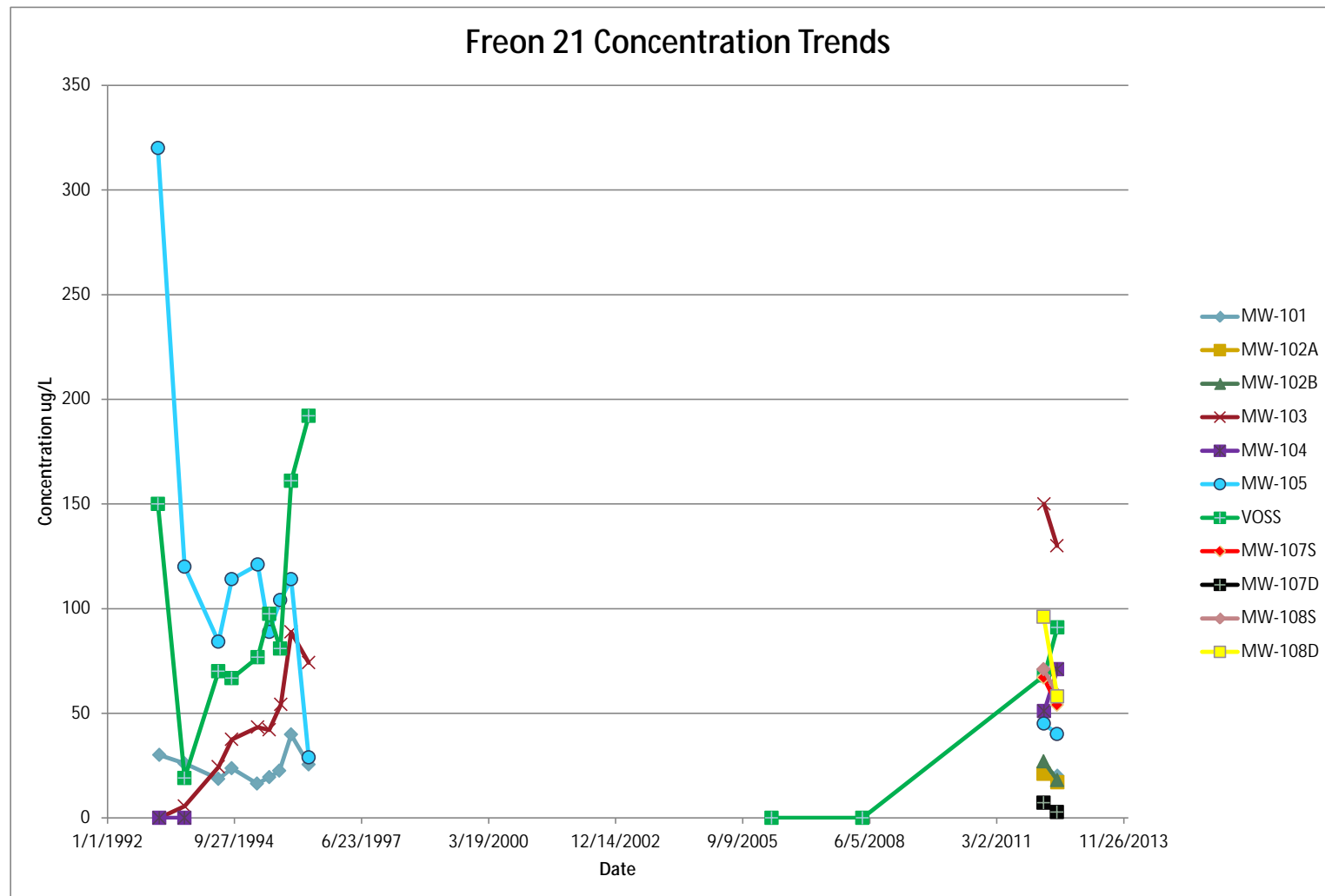
Notes: ND = Not Detected
= Not Analyzed

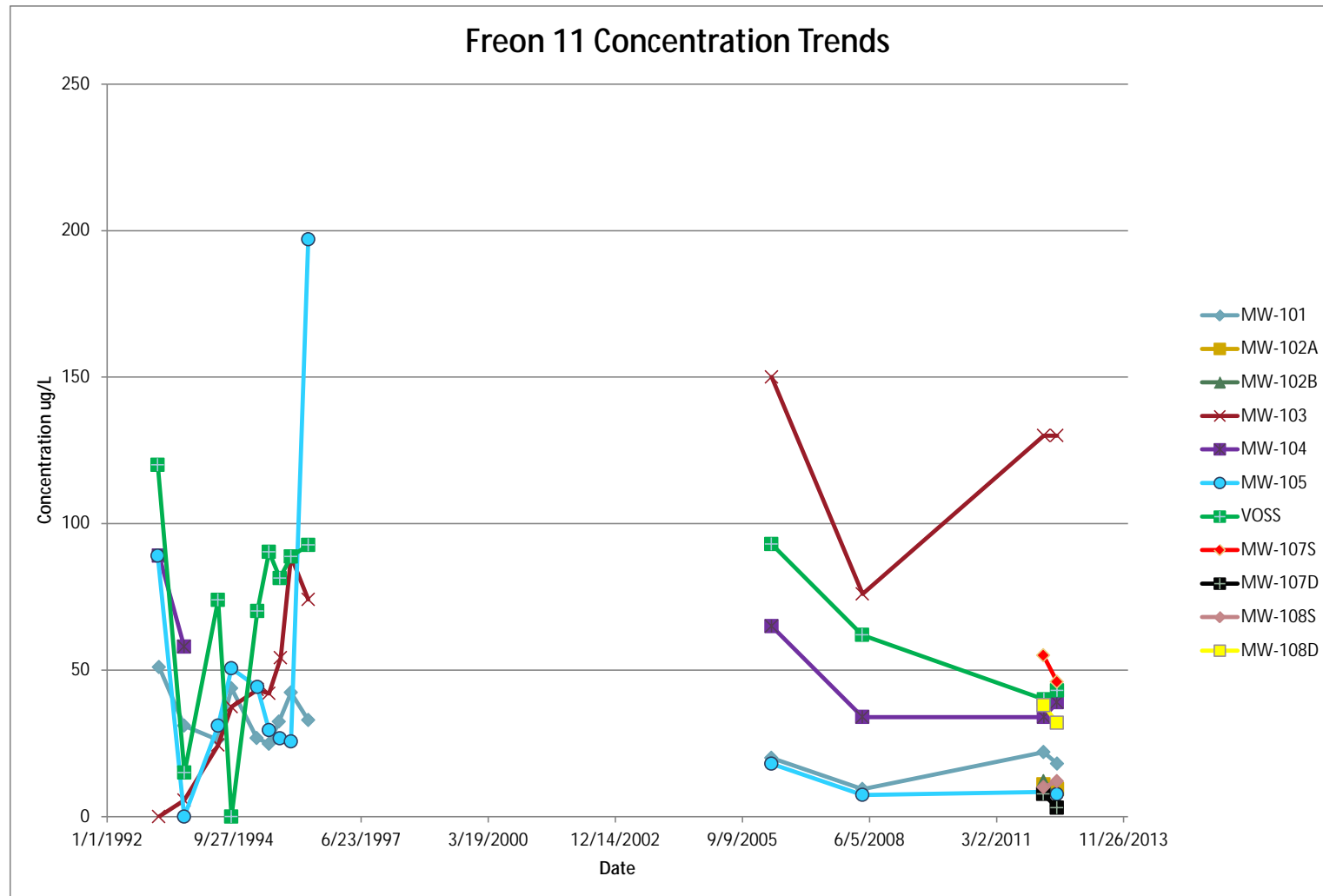












Appendix D

Validation Packages
(on CD)

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile Analyses, Metals, Misc.

SDGs #A0E280509 and A0E280605

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 18994R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) A0E280509 and A0E280605 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample Delivery Group	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
A0E280509	SW-CH01-201005261550	A0E280509-001	Water	05/26/10		X			X	
	SW-TC01-201005261740	A0E280509-002	Water	05/26/10		X			X	
	SW-LJ01-201005270800	A0E280509-003	Water	05/27/10		X			X	X
	SW-LJ02-201005270850	A0E280509-004	Water	05/27/10		X			X	X
	SW-LJ03-201005270920	A0E280509-005	Water	05/27/10		X			X	X
	EB01-20100527	A0E280509-006	Water	05/27/10		X			X	X
	TB01-20100526	A0E280509-007	Water	05/27/10		X				
A0E280605	SW-WC1-201005251100	A0E280605-001	Water	05/25/10		X			X	X
	SW-WC2-201005251200	A0E280605-002	Water	05/25/10		X			X	X
	SW-WC3-201005251300	A0E280605-003	Water	05/25/10		X			X	X
	SW-WC4-201005251400	A0E280605-004	Water	05/25/10		X			X	X
	DUP01-20100525	A0E280605-005	Water	05/25/10	SW-WC2-201005251200	X			X	X
	SW-FC1-20100526	A0E280605-006	Water	05/26/10		X				
	SW-FC2-20100526	A0E280605-007	Water	05/26/10		X				
	SW-FC3-20100526	A0E280605-008	Water	05/26/10		X				
	TB01-20100525	A0E280605-009	Water	05/25/10		X				

Note:

- Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.
- The matrix spike/matrix spike duplicates (MS/MSD) were performed on sample locations SW-LJ01-201005270800 and SW-WC1-201005251100.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SW-LJ01-201005270800	Dichlorodifluoromethane	<LL but >10%	<LL but >10%
	cis-1,3-Dichloropropene	<LL but >10%	AC
	1,1,2,2-Tetrachloroethane	<LL but >10%	AC
	Vinyl chloride	<LL but >10%	<LL but >10%
SW-WC1-201005251100	Dichlorodifluoromethane	<LL but >10%	<LL but >10%
	2,2-Dichloropropane	<LL but >10%	AC
	cis-1,3-Dichloropropene	<LL but >10%	<LL but >10%
	trans-1,3-Dichloropropene	<LL but >10%	AC
	Ethylbenzene	<LL but >10%	AC
	Hexachlorobutadiene	<LL but >10%	<LL but >10%
	Styrene	<LL but >10%	AC
	1,1,2,2-Tetrachloroethane	<LL but >10%	<LL but >10%
	Tetrachloroethene	<LL but >10%	AC
	Vinyl chloride	> UL	AC

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SW-CH01-201005261550 SW-TC01-201005261740 SW-LJ01-201005270800 SW-LJ02-201005270850 SW-LJ03-201005270920 EB01-20100527 TB01-20100526	Dichlorodifluoromethane	<LL but >10%	<LL but >10%
SW-WC1-201005251100	Bromoform	<LL but >10%	<LL but >10%
SW-WC2-201005251200	Dibromochloromethane	<LL but >10%	<LL but >10%
SW-WC3-201005251300	Dichlorodifluoromethane	<LL but >10%	<LL but >10%
SW-WC4-201005251400	Dichlorodifluoromethane	<LL but >10%	<LL but >10%
DUP01-20100525	cis-1,3-Dichloropropene	<LL but >10%	<LL but >10%
SW-FC1-20100526	trans-1,3-Dichloropropene	<LL but >10%	<LL but >10%
SW-FC2-20100526	trans-1,3-Dichloropropene	<LL but >10%	<LL but >10%
SW-FC3-20100526	trans-1,3-Dichloropropene	<LL but >10%	<LL but >10%
TB01-20100525	1,1,2,2-Tetrachloroethane	<LL but >10%	<LL but >10%

AC = Acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SW-WC2-201005251200/ DUP01-20100525	All Compounds	U	U	AC

AC Acceptable
NC Not compliant

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate(LCSD)		X	X		
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)		X	X		
Matrix Spike Duplicate(MSD)		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 2320B, 9056, SM4500 NH₃, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.

- N Spiked sample recovery is not within control limits.

- * Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

- UB Analyte considered non-detect at the listed value due to associated blank contamination.

- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS/MSD analysis exhibited acceptable recoveries and RPD between recoveries.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SW-WC2-201005251200/ DUP01-20100525	Calcium	13900	14100	1.4%
	Magnesium	5010	5040	0.6%
	Sodium	11900	12000	0.8%
	Strontium	43.9	43.4	1.1%
	Silica	4390	4350	0.9%

AC Acceptable
NC Not compliant

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution was not performed on a sample location within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks					X	
B. Method Blanks		X		X		
C. Equipment/Field Blanks					X	
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
ICP Serial Dilution					X	
Reporting Limit Verification		X		X		
Raw Data		X		X		

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Ammonia-N by SM4500 NH ₃	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C±2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

The analyses that exceeded the holding time are presented in the following table.

Sample Locations	Analyte	Holding Time	Criteria
SW-WC2-201005251200 SW-WC3-201005251300 SW-WC4-201005251400	Nitrate Nitrite Orthophosphate	>48 hours but >96 hours	<48 hours

Sample results associated with sample locations analyzed by analytical method SW-846 9056 were qualified, as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed less than two times holding time	J	UJ

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results

less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
SW-LJ02-201005270850 SW-LJ03-201005270920	Orthophosphate	Detected sample results >RL and <BAL	"UB" at detected sample concentration

RL = reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
SW-LJ01-201005270800	Orthophosphate	>UL	>UL
	Ammonia	<LL but >10%	AC

AC = Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent

and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

An MS/MSD was performed in replacement of the laboratory duplicate. All analytes associated with MS/MSD recoveries exhibited RPD within control limits.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SW-WC2-201005251200/ DUP01-20100525	Alkalinity	62.3	62.5	0.3%
	Orthophosphate	0.5 U	0.5	AC
	Chloride	12.7	12.7	0.0%
	Nitrate	0.20	0.20	0.0%
	Sulfate	4.7	4.7	0.0%

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

All LCS recoveries were within control limits.

6. System Performance and Overall Assessment

The laboratory narrative indicates that the CCV associated with samples SW-LJ01-201005270800, SW-LJ02-201005270850, SW-LJ03-201005270920 and EB01-20100527 was below control limits and were reanalyzed outside holding time. The results will be taken from the original analysis and qualified as estimated (J).

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 1677	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate(MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R - percent recovery, RPD - relative percent difference,
 %D – difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 11, 2013

PEER REVIEW: Dennis Capria

DATE: April 15, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

TestAmerica 15

15

☐ Other _____

North Canton

TRW Automotive

Client Sample ID: SW-CH01-201005261550

GC/MS Volatiles

Lot-Sample #...: A0E280509-001 Work Order #...: L179K1AA Matrix.....: WG
 Date Sampled...: 05/26/10 15:50 Date Received..: 05/28/10
 Prep Date.....: 06/02/10 Analysis Date..: 06/02/10
 Prep Batch #...: 0155200
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: SW-CH01-201005261550

GC/MS Volatiles

Lot-Sample #...: A0E280509-001 Work Order #...: L179K1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	116	(73 - 122)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

TRW Automotive

Client Sample ID: SW-TC01-201005261740

GC/MS Volatiles

Lot-Sample #...: A0E280509-002 Work Order #...: L179M1AA Matrix.....: WG
 Date Sampled...: 05/26/10 17:40 Date Received...: 05/28/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0155200
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-TC01-201005261740

GC/MS Volatiles

Lot-Sample #...: A0E280509-002 Work Order #...: L179M1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	115	(73 - 122)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

TRW Automotive

Client Sample ID: SW-LJ01-201005270800

GC/MS Volatiles

Lot-Sample #...: A0E280509-003 Work Order #...: L179V1AA Matrix.....: WG
 Date Sampled...: 05/27/10 08:00 Date Received...: 05/28/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0155200
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-LJ01-201005270800

GC/MS Volatiles

Lot-Sample #...: A0E280509-003 Work Order #...: L179V1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.0	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND J	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	
	RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	116	(73 - 122)
1,2-Dichloroethane-d4	110	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

TRW Automotive

Client Sample ID: SW-LJ02-201005270850

GC/MS Volatiles

Lot-Sample #...: A0E280509-004 Work Order #...: L17961AE Matrix.....: WG
 Date Sampled...: 05/27/10 08:50 Date Received...: 05/28/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0155200
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-LJ02-201005270850

GC/MS Volatiles

Lot-Sample #...: A0E280509-004 Work Order #...: L17961AE Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	114	(73 - 122)
1,2-Dichloroethane-d4	108	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

TRW Automotive

Client Sample ID: SW-LJ03-201005270920

GC/MS Volatiles

Lot-Sample #...: A0E280509-005 Work Order #...: L17981AE Matrix.....: WG
 Date Sampled...: 05/27/10 09:20 Date Received..: 05/28/10
 Prep Date.....: 06/03/10 Analysis Date..: 06/03/10
 Prep Batch #...: 0155058
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-LJ03-201005270920

GC/MS Volatiles

Lot-Sample #...: A0E280509-005 Work Order #...: L17981AE Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

TRW Automotive

Client Sample ID: EB01-20100527

GC/MS Volatiles

Lot-Sample #...: A0E280509-006 Work Order #...: L18AA1AE Matrix.....: WQ
 Date Sampled...: 05/27/10 11:30 Date Received...: 05/28/10
 Prep Date.....: 06/03/10 Analysis Date...: 06/03/10
 Prep Batch #...: 0155058
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: EB01-20100527

GC/MS Volatiles

Lot-Sample #...: A0E280509-006 Work Order #...: L18AA1AE Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

TRW Automotive

Client Sample ID: TB01-20100526

GC/MS Volatiles

Lot-Sample #...: A0E280509-007 Work Order #...: L18AV1AA Matrix.....: WQ
 Date Sampled...: 05/27/10 11:30 Date Received..: 05/28/10
 Prep Date.....: 06/03/10 Analysis Date..: 06/03/10
 Prep Batch #...: 0155058
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB01-20100526

GC/MS Volatiles

Lot-Sample #...: A0E280509-007 Work Order #...: L18AV1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	106	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

TRW Automotive

Client Sample ID: SW-LJ01-201005270800

DISSOLVED Metals

Lot-Sample #...: A0E280509-003

Matrix.....: WG

Date Sampled...: 05/27/10 08:00 Date Received...: 05/28/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152030						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/04/10	L179V1AL
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/04/10	L179V1AP
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Calcium	30300	5000	ug/L	SW846 6010B	06/01-06/04/10	L179V1AT
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/04/10	L179V1AE
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/04/10	L179V1AW
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Potassium	ND	5000	ug/L	SW846 6010B	06/01-06/04/10	L179V1A1
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Magnesium	16900	5000	ug/L	SW846 6010B	06/01-06/04/10	L179V1A4
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	06/01-06/04/10	L179V1A7
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Sodium	8800	5000	ug/L	SW846 6010B	06/01-06/04/10	L179V1CA
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/04/10	L179V1CE
		Dilution Factor: 1		Analysis Time...: 01:36	Analyst ID.....: 000079	
		Instrument ID...: I5				

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TRW Automotive

Client Sample ID: SW-LJ01-201005270800

DISSOLVED Metals

Lot-Sample #...: A0E280509-003

Matrix.....: WG

REPORTING					PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	06/01-06/04/10	L179V1AH
		Dilution Factor: 1		Analysis Time..: 01:36	Analyst ID.....: 000079	
		Instrument ID..: I5				
Strontium	54.6	10.0	ug/L	SW846 6020	06/01-06/02/10	L179V1D1
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 001576	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	06/01-06/04/10	L179V1CH
		Dilution Factor: 1		Analysis Time..: 01:36	Analyst ID.....: 000079	
		Instrument ID..: I5				
Prep Batch #...: 0154092						
Lithium	ND	50.0	ug/L	SW846 6010B	06/03-06/04/10	L179V1CL
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				
Silica	10100	1070	ug/L	SW846 6010B	06/03-06/04/10	L179V1CP
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				

TRW Automotive

Client Sample ID: SW-LJ02-201005270850

DISSOLVED Metals

Lot-Sample #...: A0E280509-004

Matrix.....: WG

Date Sampled...: 05/27/10 08:50 Date Received...: 05/28/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152030						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/04/10	L17961AH
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/04/10	L17961AJ
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Calcium	29500	5000	ug/L	SW846 6010B	06/01-06/04/10	L17961AK
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/04/10	L17961AF
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/04/10	L17961AL
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Potassium	ND	5000	ug/L	SW846 6010B	06/01-06/04/10	L17961AA
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Magnesium	16700	5000	ug/L	SW846 6010B	06/01-06/04/10	L17961AC
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	06/01-06/04/10	L17961AD
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Sodium	ND	5000	ug/L	SW846 6010B	06/01-06/04/10	L17961AQ
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/04/10	L17961AR
		Dilution Factor: 1		Analysis Time...: 02:05	Analyst ID.....: 000079	
		Instrument ID...: I5				

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TRW Automotive

Client Sample ID: SW-LJ02-201005270850

DISSOLVED Metals

Lot-Sample #...: A0E280509-004

Matrix.....: WG

		REPORTING			PREPARATION- WORK	
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	06/01-06/04/10	L17961AG
		Dilution Factor: 1			Analysis Time..: 02:05	Analyst ID.....: 000079
		Instrument ID..: I5				
Strontium	56.2	10.0	ug/L	SW846 6020	06/01-06/02/10	L17961A7
		Dilution Factor: 1			Analysis Time..: 20:48	Analyst ID.....: 001576
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	06/01-06/04/10	L17961AT
		Dilution Factor: 1			Analysis Time..: 02:05	Analyst ID.....: 000079
		Instrument ID..: I5				
Prep Batch #...: 0154092						
Lithium	ND	50.0	ug/L	SW846 6010B	06/03-06/04/10	L17961AU
		Dilution Factor: 1			Analysis Time..: 00:00	Analyst ID.....: 022952
		Instrument ID..: 6500ICP				
Silica	11500	1070	ug/L	SW846 6010B	06/03-06/04/10	L17961AV
		Dilution Factor: 1			Analysis Time..: 00:00	Analyst ID.....: 022952
		Instrument ID..: 6500ICP				

TRW Automotive

Client Sample ID: SW-LJ03-201005270920

DISSOLVED Metals

Lot-Sample #...: A0E280509-005

Matrix.....: WG

Date Sampled...: 05/27/10 09:20 Date Received...: 05/28/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152030						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/04/10	L17981AH
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/04/10	L17981AJ
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Calcium	30000	5000	ug/L	SW846 6010B	06/01-06/04/10	L17981AK
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/04/10	L17981AF
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/04/10	L17981AL
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Potassium	ND	5000	ug/L	SW846 6010B	06/01-06/04/10	L17981AA
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Magnesium	16600	5000	ug/L	SW846 6010B	06/01-06/04/10	L17981AC
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	06/01-06/04/10	L17981AD
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Sodium	8860	5000	ug/L	SW846 6010B	06/01-06/04/10	L17981AQ
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/04/10	L17981AR
		Dilution Factor: 1		Analysis Time...: 02:17	Analyst ID.....: 000079	
		Instrument ID...: I5				

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TRW Automotive

Client Sample ID: SW-LJ03-201005270920

DISSOLVED Metals

Lot-Sample #...: A0E280509-005

Matrix.....: WG

		REPORTING			PREPARATION- WORK	
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	06/01-06/04/10	L17981AG
		Dilution Factor: 1		Analysis Time..: 02:17	Analyst ID.....: 000079	
		Instrument ID..: I5				
Strontium	54.1	10.0	ug/L	SW846 6020	06/01-06/02/10	L17981A7
		Dilution Factor: 1		Analysis Time..: 20:55	Analyst ID.....: 001576	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	06/01-06/04/10	L17981AT
		Dilution Factor: 1		Analysis Time..: 02:17	Analyst ID.....: 000079	
		Instrument ID..: I5				
Prep Batch #...: 0154092						
Lithium	ND	50.0	ug/L	SW846 6010B	06/03-06/04/10	L17981AU
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				
Silica	10100	1070	ug/L	SW846 6010B	06/03-06/04/10	L17981AV
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				

TRW Automotive

Client Sample ID: EB01-20100527

DISSOLVED Metals

Lot-Sample #...: A0E280509-006

Matrix.....: WQ

Date Sampled...: 05/27/10 11:30 Date Received...: 05/28/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152030						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AH
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AJ
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Calcium	ND	5000	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AK
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AF
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AL
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Potassium	ND	5000	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AA
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Magnesium	ND	5000	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AC
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AD
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Sodium	ND	5000	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AQ
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AR
		Dilution Factor: 1		Analysis Time...: 02:23	Analyst ID.....: 000079	
		Instrument ID...: I5				

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TRW Automotive

Client Sample ID: EB01-20100527

DISSOLVED Metals

Lot-Sample #...: A0E280509-006

Matrix.....: WQ

PARAMETER	RESULT	REPORTING			PREPARATION-	WORK
		LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AG
		Dilution Factor: 1		Analysis Time..: 02:23	Analyst ID.....: 000079	
		Instrument ID..: I5				
Strontium	ND	10.0	ug/L	SW846 6020	06/01-06/02/10	L18AA1A7
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 001576	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	06/01-06/04/10	L18AA1AT
		Dilution Factor: 1		Analysis Time..: 02:23	Analyst ID.....: 000079	
		Instrument ID..: I5				
Prep Batch #...: 0154092						
Lithium	ND	50.0	ug/L	SW846 6010B	06/03-06/04/10	L18AA1AU
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				
Silica	ND	1070	ug/L	SW846 6010B	06/03-06/04/10	L18AA1AV
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				

TRW Automotive

Client Sample ID: SW-LJ01-201005270800

General Chemistry

Lot-Sample #...: A0E280509-003 Work Order #...: L179V Matrix.....: WG
Date Sampled...: 05/27/10 08:00 Date Received...: 05/28/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	139	5.0	mg/L	SM18 2320 B	06/04/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/04/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	ND J	0.50	mg/L	SW846 9056A	05/29/10	0152273
		Dilution Factor: 1				
Dissolved ortho-Phosphate	0.60	0.50	mg/L	SW846 9056A	06/02/10	0154316
		Dilution Factor: 1				
Dissolved Ammonia as N	ND J	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	06/02/10	0154314
		Dilution Factor: 1				
Dissolved Chloride	10.1	1.0	mg/L	SW846 9056A	05/29/10	0152279
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	06/02/10	0154315
		Dilution Factor: 1				
Dissolved Nitrate as N	0.90	0.10	mg/L	SW846 9056A	05/29/10	0152274
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	05/29/10	0152275
		Dilution Factor: 1				
Dissolved Sulfate	9.1	1.0	mg/L	SW846 9056A	05/29/10	0152282
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: SW-LJ02-201005270850

General Chemistry

Lot-Sample #...: A0E280509-004 Work Order #...: L1796 Matrix.....: WG
Date Sampled...: 05/27/10 08:50 Date Received...: 05/28/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	144	5.0	mg/L	SM18 2320 B	06/04/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/04/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	1.1	UBJ 0.50	mg/L	SW846 9056A	05/29/10	0152273
		Dilution Factor: 1				
Dissolved ortho-Phosphate	1.5	0.50	mg/L	SW846 9056A	06/02/10	0154316
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	06/01/10	0153100
		Dilution Factor: 1				
Dissolved Chloride	ND	1.0	mg/L	SW846 9056A	05/29/10	0152279
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	06/01/10	0153101
		Dilution Factor: 1				
Dissolved Nitrate as N	0.10	0.10	mg/L	SW846 9056A	05/29/10	0152274
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	05/29/10	0152275
		Dilution Factor: 1				
Dissolved Sulfate	6.5	1.0	mg/L	SW846 9056A	05/29/10	0152282
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: SW-LJ03-201005270920

General Chemistry

Lot-Sample #...: A0E280509-005 Work Order #...: L1798 Matrix.....: WG
Date Sampled...: 05/27/10 09:20 Date Received...: 05/28/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	140	5.0	mg/L	SM18 2320 B	06/04/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/04/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	0.70	UBJ 0.50	mg/L	SW846 9056A	05/29/10	0152273
		Dilution Factor: 1				
Dissolved ortho-Phosphate	1.0	0.50	mg/L	SW846 9056A	06/02/10	0154316
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	06/01/10	0153100
		Dilution Factor: 1				
Dissolved Chloride	10.3	1.0	mg/L	SW846 9056A	05/29/10	0152279
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	06/01/10	0153101
		Dilution Factor: 1				
Dissolved Nitrate as N	0.90	0.10	mg/L	SW846 9056A	05/29/10	0152274
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	05/29/10	0152275
		Dilution Factor: 1				
Dissolved Sulfate	9.3	1.0	mg/L	SW846 9056A	05/29/10	0152282
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: EB01-20100527

General Chemistry

Lot-Sample #...: A0E280509-006 Work Order #...: L18AA Matrix.....: WQ
Date Sampled...: 05/27/10 11:30 Date Received...: 05/28/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/04/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/04/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	0.83	0.50	mg/L	SW846 9056A	05/29/10	0152273
		Dilution Factor: 1				
Dissolved ortho-Phosphate	0.70	0.50	mg/L	SW846 9056A	06/02/10	0154316
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	06/01/10	0153100
		Dilution Factor: 1				
Dissolved Chloride	ND	1.0	mg/L	SW846 9056A	05/29/10	0152279
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	06/01/10	0153101
		Dilution Factor: 1				
Dissolved Nitrate as N	ND	0.10	mg/L	SW846 9056A	05/29/10	0152274
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	05/29/10	0152275
		Dilution Factor: 1				
Dissolved Sulfate	ND	1.0	mg/L	SW846 9056A	05/29/10	0152282
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

Chain of Custody Record

TestAmerica 15

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

Regulatory program:

☐ DW☐ NPDES☐ RCRA☐ Other

TestAmerica Laboratories, Inc.

Client Contact		Client Project Manager:		Site Contact:		Lab Contact:		COC No:	
Company Name: ARCADIS		John SHANPOLT		WESLEY MASSARO		DENISE POHL		1 of 1 COCs	
Address: 8725 ROSEHILL, Suite 350		Telephone: 913 492 0900 X		Telephone: 913 900 7607		Telephone: 330 966 9709			
City/State/Zip: LENEXA, KS 66215		Email: JOHN.SHANPOLT@ARCADIS- US.COM		Analysis Turnaround Time (in BUS days) TAT if different from below <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Analyses		For lab use only	
Phone: 913-492-0900		Method of Shipment/Carrier: PEDEX				TCL VOCS METALS Si:CA, Li, ST. chloride / ions carb / B: carb		Walk-in client <input type="checkbox"/> Lab pickup <input type="checkbox"/> Lab sampling <input type="checkbox"/> Job/SDC No.	
Project Name: OAK GROVE Village		Shipping/Tracking No:						Sample Specific Notes / Special Instructions:	
Project Number: KC001590.0003									
P O #									
Sample Identification		Sample Date	Sample Time	Matrix	Containers & Preservatives	Filtered Sample (Y/N)	Composite (Y/N)	Grab (Y/N)	
				Air Aqueous Sediment Solid Other:	H2SO4 HNO3 HCl NaOH ZnAc/ NaOH Unpres Other:				
SW-WC1-201005251100	5-25-10	1100	X		1 2 3				X X X X X
SW-WC2-201005251200		1200			1 2 3				
SW-WC3-201005251300		1300			1 2 3				
SW-WC4-201005251400		1400			1 2 3				
DUP01-20100525	✓	0000			1 2 3				↓ ↓ ↓ ↓ ↓
SW-FC1-20100526	5-26-10	1015				3			X
SW-FC2-20100526		1100				3			X
SW-FC3-20100526	✓	1120				3			X
TB01-20100525	5-25-10	0900	✓			2			X
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments:									
<div style="text-align: center;">26 may</div>									
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:	
M/		ARCADIS		5-26-2010 / 1245					
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Date/Time:	
						Derry Burns TA		5/27/10 915	

TRW Automotive

Client Sample ID: SW-WC1-201005251100

GC/MS Volatiles

Lot-Sample #...: A0E280605-001 Work Order #...: L18391AA Matrix.....: WG
 Date Sampled...: 05/25/10 11:00 Date Received...: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND J	1.0	ug/L
trans-1,2-Dichloroethene	ND J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND J	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND J	1.0	ug/L
Hexachlorobutadiene	ND J	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-WC1-201005251100

GC/MS Volatiles

Lot-Sample #...: A0E280605-001 Work Order #...: L18391AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND J	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND J	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND J	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

TRW Automotive

Client Sample ID: SW-WC2-201005251200

GC/MS Volatiles

Lot-Sample #...: A0E280605-002 Work Order #...: L184N1AJ Matrix.....: WG
 Date Sampled...: 05/25/10 12:00 Date Received...: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND J	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-WC2-201005251200

GC/MS Volatiles

Lot-Sample #...: A0E280605-002 Work Order #...: L184N1AJ Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

TRW Automotive

Client Sample ID: SW-WC3-201005251300

GC/MS Volatiles

Lot-Sample #...: A0E280605-003 Work Order #...: L184P1AJ Matrix.....: WG
 Date Sampled...: 05/25/10 13:00 Date Received...: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND J	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-WC3-201005251300

GC/MS Volatiles

Lot-Sample #...: A0E280605-003 Work Order #...: L184P1AJ Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

TRW Automotive

Client Sample ID: SW-WC4-201005251400

GC/MS Volatiles

Lot-Sample #...: A0E280605-004 Work Order #...: L184Q1AJ Matrix.....: WG
 Date Sampled...: 05/25/10 14:00 Date Received...: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND J	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-WC4-201005251400

GC/MS Volatiles

Lot-Sample #...: A0E280605-004 Work Order #...: L184Q1AJ Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

TRW Automotive

Client Sample ID: DUP01-20100525

GC/MS Volatiles

Lot-Sample #...: A0E280605-005 Work Order #...: L184T1AJ Matrix.....: WG
 Date Sampled...: 05/25/10 Date Received...: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND J	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: DUP01-20100525

GC/MS Volatiles

Lot-Sample #...: A0E280605-005 Work Order #...: L184T1AJ Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

TRW Automotive

Client Sample ID: SW-FC1-20100526

GC/MS Volatiles

Lot-Sample #...: A0E280605-006 Work Order #...: L184W1AA Matrix.....: WG
 Date Sampled...: 05/26/10 10:15 Date Received...: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND J	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-FC1-20100526

GC/MS Volatiles

Lot-Sample #...: A0E280605-006 Work Order #...: L184W1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

TRW Automotive

Client Sample ID: SW-FC2-20100526

GC/MS Volatiles

Lot-Sample #...: A0E280605-007 Work Order #...: L184X1AA Matrix.....: WG
 Date Sampled...: 05/26/10 11:00 Date Received...: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND J	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-FC2-20100526

GC/MS Volatiles

Lot-Sample #...: A0E280605-007 Work Order #...: L184X1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

TRW Automotive

Client Sample ID: SW-FC3-20100526

GC/MS Volatiles

Lot-Sample #...: A0E280605-008 Work Order #...: L18401AA Matrix.....: WG
 Date Sampled...: 05/26/10 11:20 Date Received..: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date..: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND J	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-FC3-20100526

GC/MS Volatiles

Lot-Sample #...: A0E280605-008 Work Order #...: L18401AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

TRW Automotive

Client Sample ID: TB01-20100525

GC/MS Volatiles

Lot-Sample #...: A0E280605-009 Work Order #...: L18411AJ Matrix.....: WQ
 Date Sampled...: 05/25/10 09:00 Date Received...: 05/27/10
 Prep Date.....: 06/02/10 Analysis Date...: 06/02/10
 Prep Batch #...: 0154141
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND J	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND J	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND J	1.0	ug/L
trans-1,3-Dichloropropene	ND J	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB01-20100525

GC/MS Volatiles

Lot-Sample #...: A0E280605-009 Work Order #...: L18411AJ Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

TRW Automotive

Client Sample ID: SW-WC1-201005251100

DISSOLVED Metals

Lot-Sample #...: A0E280605-001

Matrix.....: WG

Date Sampled...: 05/25/10 11:00 Date Received...: 05/27/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152031						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L18391AE
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L18391AF
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Calcium	16700	5000	ug/L	SW846 6010B	06/01-06/02/10	L18391AG
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/02/10	L18391AC
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/02/10	L18391AH
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Potassium	ND	5000	ug/L	SW846 6010B	06/01-06/02/10	L18391AJ
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Magnesium	6170	5000	ug/L	SW846 6010B	06/01-06/02/10	L18391AK
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Manganese	44.2	15.0	ug/L	SW846 6010B	06/01-06/02/10	L18391AL
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Sodium	15900	5000	ug/L	SW846 6010B	06/01-06/02/10	L18391AM
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/02/10	L18391AN
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079	
		Instrument ID..: I5				

(Continued on next page)

TRW Automotive

Client Sample ID: SW-WC1-201005251100

DISSOLVED Metals

Lot-Sample #...: A0E280605-001

Matrix.....: WG

		REPORTING				PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD		ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B		06/01-06/02/10	L18391AD
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079		
		Instrument ID..: I5					
Strontium	49.5	10.0	ug/L	SW846 6020		06/01-06/03/10	L18391A6
		Dilution Factor: 1		Analysis Time..: 17:39	Analyst ID.....: 001576		
		Instrument ID..: I8					
Zinc	ND	20.0	ug/L	SW846 6010B		06/01-06/02/10	L18391AP
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 000079		
		Instrument ID..: I5					
Prep Batch #...: 0154092							
Lithium	ND	50.0	ug/L	SW846 6010B		06/03-06/04/10	L18391AQ
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952		
		Instrument ID..: 6500ICP					
Silica	4880	1070	ug/L	SW846 6010B		06/03-06/04/10	L18391AR
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952		
		Instrument ID..: 6500ICP					

TRW Automotive

Client Sample ID: SW-WC2-201005251200

DISSOLVED Metals

Lot-Sample #...: A0E280605-002

Matrix.....: WG

Date Sampled...: 05/25/10 12:00 Date Received...: 05/27/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152031						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L184N1AM
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L184N1AN
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Calcium	13900	5000	ug/L	SW846 6010B	06/01-06/02/10	L184N1AP
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/02/10	L184N1AK
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/02/10	L184N1AQ
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Potassium	ND ✓	5000	ug/L	SW846 6010B	06/01-06/02/10	L184N1AR
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Magnesium	5010	5000	ug/L	SW846 6010B	06/01-06/02/10	L184N1AT
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	06/01-06/02/10	L184N1AU
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Sodium	11900	5000	ug/L	SW846 6010B	06/01-06/02/10	L184N1AV
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/02/10	L184N1AW
		Dilution Factor: 1		Analysis Time..: 14:59	Analyst ID.....: 000079	
		Instrument ID..: I5				

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TRW Automotive

Client Sample ID: SW-WC2-201005251200

DISSOLVED Metals

Lot-Sample #...: A0E280605-002

Matrix.....: WG

		REPORTING		PREPARATION-		WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	06/01-06/02/10	L184N1AL
		Dilution Factor: 1		Analysis Time...: 14:59	Analyst ID.....: 000079	
		Instrument ID...: I5				
Strontium	43.9	10.0	ug/L	SW846 6020	06/01-06/03/10	L184N1AH
		Dilution Factor: 1		Analysis Time...: 17:51	Analyst ID.....: 001576	
		Instrument ID...: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	06/01-06/02/10	L184N1AX
		Dilution Factor: 1		Analysis Time...: 14:59	Analyst ID.....: 000079	
		Instrument ID...: I5				
Prep Batch #...: 0154092						
Lithium	ND	50.0	ug/L	SW846 6010B	06/03-06/04/10	L184N1A0
		Dilution Factor: 1		Analysis Time...: 00:00	Analyst ID.....: 022952	
		Instrument ID...: 6500ICP				
Silica	4390	1070	ug/L	SW846 6010B	06/03-06/04/10	L184N1A1
		Dilution Factor: 1		Analysis Time...: 00:00	Analyst ID.....: 022952	
		Instrument ID...: 6500ICP				

NOTE(S):

E Matrix interference.

TRW Automotive

Client Sample ID: SW-WC3-201005251300

DISSOLVED Metals

Lot-Sample #...: A0E280605-003

Matrix.....: WG

Date Sampled...: 05/25/10 13:00 Date Received...: 05/27/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152031						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L184P1AM
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L184P1AN
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Calcium	14700	5000	ug/L	SW846 6010B	06/01-06/02/10	L184P1AP
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/02/10	L184P1AK
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/02/10	L184P1AQ
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Potassium	ND	5000	ug/L	SW846 6010B	06/01-06/02/10	L184P1AR
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Magnesium	5280	5000	ug/L	SW846 6010B	06/01-06/02/10	L184P1AT
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	06/01-06/02/10	L184P1AU
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Sodium	12300	5000	ug/L	SW846 6010B	06/01-06/02/10	L184P1AV
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/02/10	L184P1AW
		Dilution Factor: 1		Analysis Time...: 15:10	Analyst ID.....: 000079	
		Instrument ID...: I5				

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TRW Automotive

Client Sample ID: SW-WC3-201005251300

DISSOLVED Metals

Lot-Sample #...: A0E280605-003

Matrix.....: WG

		REPORTING			PREPARATION- WORK	
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	06/01-06/02/10	L184P1AL
		Dilution Factor: 1		Analysis Time..: 15:10	Analyst ID.....: 000079	
		Instrument ID..: I5				
Strontium	44.8	10.0	ug/L	SW846 6020	06/01-06/03/10	L184P1AH
		Dilution Factor: 1		Analysis Time..: 17:55	Analyst ID.....: 001576	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	06/01-06/02/10	L184P1AX
		Dilution Factor: 1		Analysis Time..: 15:10	Analyst ID.....: 000079	
		Instrument ID..: I5				
Prep Batch #...: 0154092						
Lithium	ND	50.0	ug/L	SW846 6010B	06/03-06/04/10	L184P1A0
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				
Silica	4830	1070	ug/L	SW846 6010B	06/03-06/04/10	L184P1A1
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				

TRW Automotive

Client Sample ID: SW-WC4-201005251400

DISSOLVED Metals

Lot-Sample #...: A0E280605-004

Matrix.....: WG

Date Sampled...: 05/25/10 14:00 Date Received...: 05/27/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152031						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AM
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AN
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Calcium	15600	5000	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AP
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AK
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AQ
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Potassium	ND	5000	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AR
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Magnesium	5590	5000	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AT
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AU
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Sodium	12700	5000	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AV
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AW
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 000079	
		Instrument ID...: I5				

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TRW Automotive

Client Sample ID: SW-WC4-201005251400

DISSOLVED Metals

Lot-Sample #...: A0E280605-004

Matrix.....: WG

		REPORTING			PREPARATION-WORK	
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AL
		Dilution Factor: 1			Analysis Time..: 15:16	Analyst ID.....: 000079
		Instrument ID..: I5				
Strontium	48.3	10.0	ug/L	SW846 6020	06/01-06/03/10	L184Q1AH
		Dilution Factor: 1			Analysis Time..: 18:08	Analyst ID.....: 001576
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	06/01-06/02/10	L184Q1AX
		Dilution Factor: 1			Analysis Time..: 15:16	Analyst ID.....: 000079
		Instrument ID..: I5				
Prep Batch #...: 0154092						
Lithium	ND	50.0	ug/L	SW846 6010B	06/03-06/04/10	L184Q1A0
		Dilution Factor: 1			Analysis Time..: 00:00	Analyst ID.....: 022952
		Instrument ID..: 6500ICP				
Silica	5000	1070	ug/L	SW846 6010B	06/03-06/04/10	L184Q1A1
		Dilution Factor: 1			Analysis Time..: 00:00	Analyst ID.....: 022952
		Instrument ID..: 6500ICP				

TRW Automotive

Client Sample ID: DUP01-20100525

DISSOLVED Metals

Lot-Sample #...: A0E280605-005

Matrix.....: WG

Date Sampled...: 05/25/10

Date Received...: 05/27/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0152031						
Barium	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L184T1AM
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Boron	ND	200	ug/L	SW846 6010B	06/01-06/02/10	L184T1AN
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Calcium	14100	5000	ug/L	SW846 6010B	06/01-06/02/10	L184T1AP
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	06/01-06/02/10	L184T1AK
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Iron	ND	100	ug/L	SW846 6010B	06/01-06/02/10	L184T1AQ
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Potassium	ND	5000	ug/L	SW846 6010B	06/01-06/02/10	L184T1AR
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Magnesium	5040	5000	ug/L	SW846 6010B	06/01-06/02/10	L184T1AT
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	06/01-06/02/10	L184T1AU
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Sodium	12000	5000	ug/L	SW846 6010B	06/01-06/02/10	L184T1AV
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	06/01-06/02/10	L184T1AW
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				

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TRW Automotive

Client Sample ID: DUP01-20100525

DISSOLVED Metals

Lot-Sample #...: A0E280605-005

Matrix.....: WG

		REPORTING			PREPARATION- WORK	
<u>PARAMETER</u>	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Lead	ND	3.0	ug/L	SW846 6010B	06/01-06/02/10	L184T1AL
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Strontium	43.4	10.0	ug/L	SW846 6020	06/01-06/03/10	L184T1AH
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 001576	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	06/01-06/02/10	L184T1AX
		Dilution Factor: 1		Analysis Time..: 15:22	Analyst ID.....: 000079	
		Instrument ID..: I5				
Prep Batch #...: 0154092						
Lithium	ND	50.0	ug/L	SW846 6010B	06/03-06/04/10	L184T1A0
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				
Silica	4350	1070	ug/L	SW846 6010B	06/03-06/04/10	L184T1A1
		Dilution Factor: 1		Analysis Time..: 00:00	Analyst ID.....: 022952	
		Instrument ID..: 6500ICP				

TRW Automotive

Client Sample ID: SW-WC1-201005251100

General Chemistry

Lot-Sample #...: A0E280605-001 Work Order #...: L1839 Matrix.....: WG
Date Sampled...: 05/25/10 11:00 Date Received...: 05/27/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	67.7	5.0	mg/L	SM18 2320 B	06/05/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/05/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	1.0	0.50	mg/L	SW846 9056A	05/27/10	0152312
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	05/27/10	0152308
		Dilution Factor: 1				
Dissolved Chloride	15.6	1.0	mg/L	SW846 9056A	05/27/10	0152307
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	05/27/10	0152309
		Dilution Factor: 1				
Dissolved Nitrate as N	0.20	0.10	mg/L	SW846 9056A	05/27/10	0152310
		Dilution Factor: 1				
Dissolved Nitrite	0.10	0.10	mg/L	SW846 9056A	05/27/10	0152311
		Dilution Factor: 1				
Dissolved Sulfate	14.5	1.0	mg/L	SW846 9056A	05/27/10	0152313
		Dilution Factor: 1				
Total Phosphorus, Dissolved	0.24	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: SW-WC2-201005251200

General Chemistry

Lot-Sample #...: A0E280605-002 Work Order #...: L184N Matrix.....: WG
Date Sampled...: 05/25/10 12:00 Date Received...: 05/27/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	62.3	5.0	mg/L	SM18 2320 B	06/04/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/04/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	ND J	0.50	mg/L	SW846 9056A	05/28/10	0152312
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	05/28/10	0152308
		Dilution Factor: 1				
Dissolved Chloride	12.7	1.0	mg/L	SW846 9056A	05/28/10	0152307
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	05/28/10	0152309
		Dilution Factor: 1				
Dissolved Nitrate as N	0.20 J	0.10	mg/L	SW846 9056A	05/28/10	0152310
		Dilution Factor: 1				
Dissolved Nitrite	ND J	0.10	mg/L	SW846 9056A	05/28/10	0152311
		Dilution Factor: 1				
Dissolved Sulfate	4.7	1.0	mg/L	SW846 9056A	05/28/10	0152313
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: SW-WC3-201005251300

General Chemistry

Lot-Sample #...: A0E280605-003 Work Order #...: L184P Matrix.....: WG
Date Sampled...: 05/25/10 13:00 Date Received...: 05/27/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	65.5	5.0	mg/L	SM18 2320 B	06/05/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/05/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	ND J	0.50	mg/L	SW846 9056A	05/28/10	0152312
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	05/28/10	0152308
		Dilution Factor: 1				
Dissolved Chloride	13.7	1.0	mg/L	SW846 9056A	05/28/10	0152307
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	05/28/10	0152309
		Dilution Factor: 1				
Dissolved Nitrate as N	0.20 J	0.10	mg/L	SW846 9056A	05/28/10	0152310
		Dilution Factor: 1				
Dissolved Nitrite	ND J	0.10	mg/L	SW846 9056A	05/28/10	0152311
		Dilution Factor: 1				
Dissolved Sulfate	5.0	1.0	mg/L	SW846 9056A	05/28/10	0152313
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: SW-WC4-201005251400

General Chemistry

Lot-Sample #...: A0E280605-004 Work Order #...: L184Q Matrix.....: WG
Date Sampled...: 05/25/10 14:00 Date Received..: 05/27/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	68.9	5.0	mg/L	SM18 2320 B	06/04/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/04/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	ND J	0.50	mg/L	SW846 9056A	05/28/10	0152312
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	05/28/10	0152308
		Dilution Factor: 1				
Dissolved Chloride	13.4	1.0	mg/L	SW846 9056A	05/28/10	0152307
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	05/28/10	0152309
		Dilution Factor: 1				
Dissolved Nitrate as N	0.20 J	0.10	mg/L	SW846 9056A	05/28/10	0152310
		Dilution Factor: 1				
Dissolved Nitrite	ND J	0.10	mg/L	SW846 9056A	05/28/10	0152311
		Dilution Factor: 1				
Dissolved Sulfate	5.0	1.0	mg/L	SW846 9056A	05/28/10	0152313
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: DUP01-20100525

General Chemistry

Lot-Sample #...: A0E280605-005

Work Order #...: L184T

Matrix.....: WG

Date Sampled...: 05/25/10

Date Received...: 05/27/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	62.5	5.0	mg/L	SM18 2320 B	06/04/10	0156023
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	06/04/10	0156026
		Dilution Factor: 1				
Dissolved ortho-Phosphate	0.50	0.50	mg/L	SW846 9056A	05/27/10	0152312
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	06/07/10	0158342
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	05/27/10	0152308
		Dilution Factor: 1				
Dissolved Chloride	12.7	1.0	mg/L	SW846 9056A	05/27/10	0152307
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	05/27/10	0152309
		Dilution Factor: 1				
Dissolved Nitrate as N	0.20	0.10	mg/L	SW846 9056A	05/27/10	0152310
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	05/27/10	0152311
		Dilution Factor: 1				
Dissolved Sulfate	4.7	1.0	mg/L	SW846 9056A	05/27/10	0152313
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	06/03/10	0154384
		Dilution Factor: 1				

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile Analyses.

SDGs #A1A060436 and A1A070479

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 18997R
Review Level: Tier III
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) A1A060436 and A1A070479 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample Delivery Group	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
A1A060436	MW-108BH@195(20110105)	A1A060436001	Water	1/5/2011		X				
	TB-20110105	A1A060436002	Water	1/5/2011		X				
A1A070479	MW-108BH@210(20110106)	A1A070479001	Water	1/6/2011		X				
	TB-20110106	A1A070479002	Water	1/6/2011		X				

Note:

- 1 The matrix spike/matrix spike duplicates (MS/MSD) were performed on sample location MW-108BH@210(20110106).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
All sample locations	CCV %D	Dichlorodifluoromethane	-22.3%
		Chloromethane	-21.2%
		Carbon tetrachloride	25.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
All sample locations	Carbon tetrachloride	>UL	-

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not analyzed on a sample within this data set.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks					X	
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)					X	
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X		X		
Matrix Spike Duplicate(MSD)		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Transcription/calculation errors present		X		X		

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 11, 2013

PEER REVIEW: Dennis Capria

DATE: April 17, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

TRW Automotive

Client Sample ID: MW-108BH@195(20110105)

GC/MS Volatiles

Lot-Sample #...: A1A060436-001 Work Order #...: MC3QN1AA Matrix.....: WG
 Date Sampled...: 01/05/11 08:30 Date Received...: 01/06/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND J	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	26	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108BH@195(20110105)

GC/MS Volatiles

Lot-Sample #...: A1A060436-001 Work Order #...: MC3QN1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	4.7	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	100	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

TRW Automotive

Client Sample ID: TB-20110105

GC/MS Volatiles

Lot-Sample #...: A1A060436-002 Work Order #...: MC3QT1AA Matrix.....: WQ
 Date Sampled...: 01/05/11 Date Received...: 01/06/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND J	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20110105

GC/MS Volatiles

Lot-Sample #...: A1A060436-002 Work Order #...: MC3QT1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(75 - 121)
1,2-Dichloroethane-d4	98	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)



8725 Rosehill - Ste 350, Lenexa, KS 66278

Laboratory Task Order No./P.O. No.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name KC001590.0003.00002/TRW 06V 0U2

Project Location City of Sullivan, MO Landfill

Laboratory TA - NORTH CANTON; ATTN: Denise Poh

Project Manager John Shonfelt

Sampler(s)/Affiliation Larry Benolkin / AHEADS

ANALYSIS / METHOD / SIZE

VOCs EPA 8260B

LOC# 245

[illegible]

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/
Containers

5

Relinquished by: <u>Dany Benth</u>	Organization: <u>ARCADIS</u>	Date: <u>1 / 6 / 2011</u>	Time: <u>1530</u>	Seal Intact?
Received by: <u>Chris Jones</u>	Organization: <u>TBL</u>	Date: <u>1 / 7 / 11</u>	Time: <u>920</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1 / 1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1 / 1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: 48-hr (2Bday) TAT

Delivery Method: ☐ In Person

☒ Common Carrier FedEx 8715 8796 1213 ☐ Lab Courier
SPECIES

☐ Other

SPECIFY

AG 05-12/01

North Canton

TRW Automotive

Client Sample ID: MW-108BH@210'(20110106)

GC/MS Volatiles

Lot-Sample #...: A1A070479-001 Work Order #...: MC5JF1AA Matrix.....: WG
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND J	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	1.2	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	39	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: MW-108BH@210'(20110106)

GC/MS Volatiles

Lot-Sample #...: A1A070479-001 Work Order #...: MC5JF1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.1	1.0	ug/L
Trichlorofluoromethane	5.8	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	97	(75 - 121)
1,2-Dichloroethane-d4	96	(63 - 129)
Toluene-d8	87	(74 - 115)
4-Bromofluorobenzene	91	(66 - 117)

TRW Automotive

Client Sample ID: TB-20110106

GC/MS Volatiles

Lot-Sample #...: A1A070479-002 Work Order #...: MC5JN1AA Matrix.....: WQ
 Date Sampled...: 01/06/11 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND J	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND J	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB-20110106

GC/MS Volatiles

Lot-Sample #...: A1A070479-002 Work Order #...: MC5JN1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	100	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile Analyses.

SDG #240-15149

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19009R
Review Level: Tier III
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) 240-15149 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-1A(09122012)	240-15149-1	Water	9/12/2012		X			X	X
DUP-01(09122012)	240-15149-2	Water	9/12/2012	MW-1A(09122012)	X			X	X
VOSS WELL(09122012)	240-15149-3	Water	9/12/2012		X			X	X
EB-01(09132012)	240-15149-4	Water	9/13/2012		X			X	X
MW-104(09132012)	240-15149-5	Water	9/13/2012		X			X	X
MW-105(09132012)	240-15149-6	Water	9/13/2012		X			X	X
MW-101(09132012)	240-15149-7	Water	9/13/2012		X			X	X
TRIP BLANK_9/13/2012	240-15149-8	Water	9/13/2012		X				

Note:

- 1 The matrix spike/matrix spike duplicates (MS/MSD) were performed on sample location VOSS WELL(09122012).
- 2 Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-1A(09122012) DUP-01(09122012) VOSS WELL(09122012)	CCV %D	Hexachlorobutadiene	-25.5%
EB-01(09132012)		Trichlorofluoromethane	23.6%
MW-104(09132012)		Hexachlorobutadiene	-23.3%
MW-105(09132012)		Naphthalene	-30.1%
MW-101(09132012)		1,2,4-Trimethylbenzene	-24.4%
TRIP BLANK_9/13/2012		1,2,3-Trichlorobenzene	-27.3%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-1A(09122012)/ DUP-01(09122012)	1,1-Dichloroethane	0.56 J	0.58 J	AC
	Cis-1,2-Dichloroethene	0.45 J	0.49 J	AC
	Dichlorodifluoromethane	0.77 J	0.71 J	AC
	Dichlorofluoromethane	16	16	0.0%
	Tetrachloroethene	1 U	0.3 J	AC
	Trichloroethene	0.82 J	0.82 J	AC
	Trichlorofluoromethane	6.4	6.5	1.5%

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
VOSS WELL(09122012)	Dichlorofluoromethane	--	79 D	79 D
	Trichlorofluoromethane	--	62 D	62 D
MW-104(09132012)	Dichlorofluoromethane	--	53 D	53 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)					X	
LCS/LCSD Precision (RPD)					X	
Matrix Spike (MS)		X		X		
Matrix Spike Duplicate(MSD)		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content					X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Transcription/calculation errors present		X		X		

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 2320B, 9056, SM4500 NH₃, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW-1A(09122012) DUP-01(09122012) MW-104(09132012)	Manganese	Detected sample results <RL and <BAL	"UB" at the RL

RL = reporting limit

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All continuing calibration verification standard recoveries were within the control limit.

3.2 CRDL Check Standard

The CRDL check standard serves to verify the linearity of calibration of the analysis at the CRDL. The CRDL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the CRDL standard analysis are presented below in the CRDL standards evaluation table (if applicable).

All CRDL standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
VOSS WELL(09122012)	Silica	AC	134%

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to all sample results associated with this SDG.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-1A(09122012)/ DUP-01(09122012)	Barium	110 J	120 J	AC
	Calcium	61000	65000	6.3%
	Magnesium	32000	34000	6.0%
	Manganese	0.64 J	0.58 J	AC
	Potassium	3000 J	3200 J	AC
	Silica	11000	8700	23.3%
	Sodium	5300	5700	7.2%
	Zinc	7.5 J	12 J	AC

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution performed on sample location VOSS WELL(09122012) exhibited %D within the control limit.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METAL

METALS; SW-846 6000/7000	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Atomic Absorption – Manual Cold Vapor (CV)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks		X		X		
B. Method Blanks		X	X			
C. Equipment/Field Blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X	X			
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
ICP Serial Dilution		X		X		
Reporting Limit Verification		X		X		
Raw Data		X		X		
Tier III Validation						
Initial Calibration Verification		X		X		
Continuing Calibration Verification		X		X		
CRDL Standard		X		X		
ICP Interference Check		X		X		
Transcription/calculation errors present		X		X		
Reporting limits adjusted to reflect sample dilutions		X		X		

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Ammonia-N by SM4500 NH ₃	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C±2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW-1A(09122012) DUP-01(09122012)	Orthophosphate	Detected sample results <RL and <BAL	"UB" at the RL

RL = reporting limit

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 and all initial calibration verification standard recoveries were within control limits.

All calibration standard recoveries were within the control limit.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
VOSS WELL(09122012)	Orthophosphate	143%	160%

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to the parent sample result associated with this SDG.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

The laboratory duplicate sample results exhibited RPD within the control limit.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-1A(09122012)/ DUP-01(09122012)	Chloride	6.4	6.4	0.0 %
	Fluoride	0.05 J	0.046 J	AC
	Nitrate-N	1.9	1.9	0.0 %
	Orthophosphate	0.15 J	0.11 J	AC
	Sulfate	6.5	6.6	1.5 %
	Ammonia	0.046 J	0.036 J	AC
	Alkalinity	290	280	3.5 %

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA XXXX	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate(MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
Initial calibration %RSD or correlation coefficient		X		X	
Continuing calibration %R		X		X	
Raw Data					
Transcription/calculation errors present		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference, %D – difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 12, 2013

PEER REVIEW: Dennis Capria

DATE: April 17, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

THE LEADER IN ENVIRONMENTAL TESTING

Regulatory program:

☐ Other _____

COC No: 024023

_____ of _____ COCs

~~EO/31/2012~~

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-15149-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Indicates an Estimated Value for TICs
	U	Indicates the analyte was analyzed for but not detected.
	T	Result is a tentatively identified compound (TIC) and an estimated value.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	N	This flag indicates the presumptive evidence of a compound.
Metals		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-1A(09122012)

Lab Sample ID: 240-15149-1

Date Sampled: 09/12/2012 1755

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58477	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9187.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1902			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1902				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.45	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.77	J	0.31	1.0
1,1-Dichloroethane	0.56	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	16		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-1A(09122012)

Lab Sample ID: 240-15149-1

Date Sampled: 09/12/2012 1755

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58477	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9187.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1902			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1902				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.82	J	0.17	1.0
Trichlorofluoromethane	6.4		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	83		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: DUP-01(09122012)

Lab Sample ID: 240-15149-2FD

Date Sampled: 09/12/2012 0000

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-58477

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX9188.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 09/20/2012 1923

Final Weight/Volume: 5 mL

Prep Date: 09/20/2012 1923

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.49	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.71	J	0.31	1.0
1,1-Dichloroethane	0.58	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	16		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.30	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: DUP-01(09122012)

Lab Sample ID: 240-15149-2FD

Date Sampled: 09/12/2012 0000

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58477	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9188.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1923			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1923				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.82	J	0.17	1.0
Trichlorofluoromethane	6.5		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	102		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: VOSS WELL(09122012)

Lab Sample ID: 240-15149-3

Date Sampled: 09/12/2012 1950

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58477	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9169.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1235			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	4.3		0.31	1.0
1,1-Dichloroethane	2.9		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.30	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.81	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: VOSS WELL(09122012)

Lab Sample ID: 240-15149-3

Date Sampled: 09/12/2012 1950

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58477	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9169.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1235			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.35	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.0		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
Toluene-d8 (Surr)	88		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: VOSS WELL(09122012)

Lab Sample ID: 240-15149-3

Date Sampled: 09/12/2012 1950

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58477	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9190.D
Dilution:	3.333			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 2006			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 2006				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	79	D	1.4	6.7
Trichlorofluoromethane	62	D	0.70	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	83		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: EB-01(09132012)

Lab Sample ID: 240-15149-4EB

Client Matrix: Water

Date Sampled: 09/13/2012 0815

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9327.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0604			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0604				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.70	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: EB-01(09132012)

Lab Sample ID: 240-15149-4EB

Client Matrix: Water

Date Sampled: 09/13/2012 0815

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9327.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0604			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0604				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U J	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U J	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U J	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
Toluene-d8 (Surr)	90		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-104(09132012)

Lab Sample ID: 240-15149-5

Date Sampled: 09/13/2012 1125

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9331.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0729			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0729				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.36	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.3		0.31	1.0
1,1-Dichloroethane	0.98	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.76	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-104(09132012)

Lab Sample ID: 240-15149-5

Date Sampled: 09/13/2012 1125

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9331.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0729			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0729				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.3		0.17	1.0
Trichlorofluoromethane	26	J	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U J	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U J	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-104(09132012)

Lab Sample ID: 240-15149-5

Date Sampled: 09/13/2012 1125

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9333.D
Dilution:	2.5			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0842			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0842				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	53	D	1.1	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	93		75 - 121
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
Toluene-d8 (Surr)	89		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-105(09132012)

Lab Sample ID: 240-15149-6

Date Sampled: 09/13/2012 0950

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-58878

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX9328.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 09/25/2012 0625

Final Weight/Volume: 5 mL

Prep Date: 09/25/2012 0625

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.7		0.31	1.0
1,1-Dichloroethane	3.2		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	37		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.43	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-105(09132012)

Lab Sample ID: 240-15149-6

Date Sampled: 09/13/2012 0950

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9328.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0625			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0625				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.3		0.17	1.0
Trichlorofluoromethane	11	J	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U J	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U J	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-101(09132012)

Lab Sample ID: 240-15149-7

Date Sampled: 09/13/2012 1310

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9330.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0708			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0708				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.78	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.7		0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	24		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.33	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-101(09132012)

Lab Sample ID: 240-15149-7

Date Sampled: 09/13/2012 1310

Client Matrix: Water

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9330.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0708			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0708				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.6		0.17	1.0
Trichlorofluoromethane	28	J	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U J	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U J	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-15149-8TB

Client Matrix: Water

Date Sampled: 09/13/2012 0000

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-58878

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX9329.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 09/25/2012 0647

Final Weight/Volume: 5 mL

Prep Date: 09/25/2012 0647

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.2		0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-15149-8TB

Client Matrix: Water

Date Sampled: 09/13/2012 0000

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9329.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2012 0647			Final Weight/Volume:	5 mL
Prep Date:	09/25/2012 0647				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U J	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U J	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U J	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
Toluene-d8 (Surr)	90		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-1A(09122012)

Lab Sample ID: 240-15149-1

Date Sampled: 09/12/2012 1755

Client Matrix: Water

Date Received: 09/14/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-58285	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58036	Lab File ID:	I50918A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 2207			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	110	J	0.67	200
Boron	200	U	34	200
Calcium	61000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3000	J B	72	5000
Magnesium	32000		34	5000
Manganese	15 0.64 UB	J-B	0.41	15
Sodium	5300		590	5000
Nickel	40	U	3.2	40
Zinc	7.5	J	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	240-58671	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58036	Lab File ID:	I90920a.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1320			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-60094	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-59830	Lab File ID:	I9100312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2012 1623			Final Weight/Volume:	50 mL
Prep Date:	10/02/2012 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	11000	B J	14	1100

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: DUP-01(09122012)

Lab Sample ID: 240-15149-2FD

Client Matrix: Water

Date Sampled: 09/12/2012 0000

Date Received: 09/14/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-58285	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58036	Lab File ID:	I50918A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 2212			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	J	0.67	200
Boron	200	U	34	200
Calcium	65000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3200	J B	72	5000
Magnesium	34000		34	5000
Manganese	1.5 0.58 UB	J-B	0.41	15
Sodium	5700		590	5000
Nickel	40	U	3.2	40
Zinc	12	J	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	240-58671	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58036	Lab File ID:	I90920a.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1324			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-60094	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-59830	Lab File ID:	I9100312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2012 1627			Final Weight/Volume:	50 mL
Prep Date:	10/02/2012 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	8700	B J	14	1100

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: VOSS WELL(09122012)

Lab Sample ID: 240-15149-3

Date Sampled: 09/12/2012 1950

Client Matrix: Water

Date Received: 09/14/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-58671	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58043	Lab File ID:	i90920a.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1352			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	190	J	0.67	200
Boron	200	U	34	200
Calcium	51000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1400	J	72	5000
Magnesium	28000		34	5000
Manganese	0.52	J	0.41	15
Sodium	4700	J	590	5000
Nickel	40	U	3.2	40
Zinc	11	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-60094	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-59830	Lab File ID:	I9100312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2012 1600			Final Weight/Volume:	50 mL
Prep Date:	10/02/2012 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	11000	B J	14	1100

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: EB-01(09132012)

Lab Sample ID: 240-15149-4EB

Client Matrix: Water

Date Sampled: 09/13/2012 0815

Date Received: 09/14/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-58285	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58036	Lab File ID:	I50918A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 2218			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	0.99	J	0.67	200
Boron	200	U	34	200
Calcium	5000	U	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	160	J B	72	5000
Magnesium	5000	U	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	240-58671	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58036	Lab File ID:	I90920a.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1328			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-60094	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-59830	Lab File ID:	I9100312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2012 1631			Final Weight/Volume:	50 mL
Prep Date:	10/02/2012 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	120	J B	14	1100

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-104(09132012)

Lab Sample ID: 240-15149-5

Date Sampled: 09/13/2012 1125

Client Matrix: Water

Date Received: 09/14/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-58285	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58036	Lab File ID:	I50918A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 2224			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	84	J	0.67	200
Boron	200	U	34	200
Calcium	77000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2000	J B	72	5000
Magnesium	43000		34	5000
Manganese	1.5 0.95 UB	J B	0.41	15
Sodium	8800		590	5000
Nickel	40	U	3.2	40
Zinc	27		5.0	20
Lead	2.5	J	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	240-58671	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58036	Lab File ID:	I90920a.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1340			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-60094	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-59830	Lab File ID:	I9100312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2012 1635			Final Weight/Volume:	50 mL
Prep Date:	10/02/2012 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	12000	B J	14	1100

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-105(09132012)

Lab Sample ID: 240-15149-6

Date Sampled: 09/13/2012 0950

Client Matrix: Water

Date Received: 09/14/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-58671	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58043	Lab File ID:	i90920a.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1408			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	100	J	0.67	200
Boron	38	J	34	200
Calcium	69000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3100	J	72	5000
Magnesium	38000		34	5000
Manganese	0.59	J	0.41	15
Sodium	7100		590	5000
Nickel	40	U	3.2	40
Zinc	6.6	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-60094	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-59830	Lab File ID:	I9100312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2012 1639			Final Weight/Volume:	50 mL
Prep Date:	10/02/2012 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9600	B J	14	1100

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

Client Sample ID: MW-101(09132012)

Lab Sample ID: 240-15149-7

Date Sampled: 09/13/2012 1310

Client Matrix: Water

Date Received: 09/14/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-58671	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58043	Lab File ID:	i90920a.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1412			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	58	J	0.67	200
Boron	200	U	34	200
Calcium	61000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1500	J	72	5000
Magnesium	34000		34	5000
Manganese	0.98	J	0.41	15
Sodium	4400	J	590	5000
Nickel	40	U	3.2	40
Zinc	31		5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-60094	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-59830	Lab File ID:	I9100312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2012 1643			Final Weight/Volume:	50 mL
Prep Date:	10/02/2012 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	10000	B J	14	1100

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

General Chemistry

Client Sample ID: MW-1A(09122012)

Lab Sample ID: 240-15149-1

Date Sampled: 09/12/2012 1755

Client Matrix: Water

Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.4		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1501			
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1501			
Fluoride-Dissolved	0.050	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1501			
Nitrate as N-Dissolved	1.9	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1501			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1501			
Orthophosphate-Dissolved	0.500-15	UB JH	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1501			
Sulfate-Dissolved	6.5		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1501			
Bicarbonate Alkalinity as CaCO3	290		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937				Analysis Date: 09/24/2012 2005			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937				Analysis Date: 09/24/2012 2005			
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59714				Analysis Date: 10/01/2012 1444			
Prep Batch: 240-59624				Prep Date: 10/01/2012 0829			
Ammonia-Dissolved	0.046	J	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-59478				Analysis Date: 09/28/2012 0938			

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

General Chemistry

Client Sample ID: DUP-01(09122012)

Lab Sample ID: 240-15149-2FD

Client Matrix: Water

Date Sampled: 09/12/2012 0000

Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.4		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1517						
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1517						
Fluoride-Dissolved	0.046	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1517						
Nitrate as N-Dissolved	1.9	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1517						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1517						
Orthophosphate-Dissolved	0.11 0.50	UB J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1517						
Sulfate-Dissolved	6.6		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1517						
Bicarbonate Alkalinity as CaCO3	280		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937	Analysis Date: 09/24/2012 2015						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937	Analysis Date: 09/24/2012 2015						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59714	Analysis Date: 10/01/2012 1444						
Prep Batch: 240-59624	Prep Date: 10/01/2012 0830						
Ammonia-Dissolved	0.036	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59478	Analysis Date: 09/28/2012 0941						

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

General Chemistry

Client Sample ID: VOSS WELL(09122012)

Lab Sample ID: 240-15149-3

Date Sampled: 09/12/2012 1950

Client Matrix: Water

Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.1		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1534			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1534			
Fluoride-Dissolved	0.052	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1534			
Nitrate as N-Dissolved	1.1		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1534			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1534			
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1534			
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1534			
Bicarbonate Alkalinity as CaCO3	210		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937				Analysis Date: 09/24/2012 1906			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937				Analysis Date: 09/24/2012 1906			
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59714				Analysis Date: 10/01/2012 1444			
Prep Batch: 240-59624				Prep Date: 10/01/2012 0819			
Ammonia-Dissolved	0.036	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59478				Analysis Date: 09/28/2012 0944			

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

General Chemistry**Client Sample ID:** EB-01(09132012)

Lab Sample ID: 240-15149-4EB

Date Sampled: 09/13/2012 0815

Client Matrix: Water

Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.0	U	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1623						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1623						
Fluoride-Dissolved	1.0	U	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1623						
Nitrate as N-Dissolved	0.10	U	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1623						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1623						
Orthophosphate-Dissolved	0.48	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1623						
Sulfate-Dissolved	1.0	U	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1623						
Bicarbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-59259	Analysis Date: 09/25/2012 1829						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-59259	Analysis Date: 09/25/2012 1829						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59714	Analysis Date: 10/01/2012 1444						
Prep Batch: 240-59624	Prep Date: 10/01/2012 0832						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59337	Analysis Date: 09/27/2012 1042						

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

General Chemistry**Client Sample ID: MW-104(09132012)**

Lab Sample ID: 240-15149-5

Date Sampled: 09/13/2012 1125

Client Matrix: Water

Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	25		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1745						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1745						
Fluoride-Dissolved	0.032	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1745						
Nitrate as N-Dissolved	0.93		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1745						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1745						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57929	Analysis Date: 09/14/2012 1745						
Sulfate-Dissolved	6.4		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57928	Analysis Date: 09/14/2012 1745						
Bicarbonate Alkalinity as CaCO3	340		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-59259	Analysis Date: 09/25/2012 1911						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-59259	Analysis Date: 09/25/2012 1911						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59714	Analysis Date: 10/01/2012 1447						
Prep Batch: 240-59624	Prep Date: 10/01/2012 0834						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59337	Analysis Date: 09/27/2012 1044						

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

General Chemistry**Client Sample ID: MW-105(09132012)**

Lab Sample ID: 240-15149-6

Date Sampled: 09/13/2012 0950

Client Matrix: Water

Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.5		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1656			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1656			
Fluoride-Dissolved	0.031	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1656			
Nitrate as N-Dissolved	1.6		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1656			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1656			
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1656			
Sulfate-Dissolved	7.9		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1656			
Bicarbonate Alkalinity as CaCO3	320		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-59259				Analysis Date: 09/25/2012 1926			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-59259				Analysis Date: 09/25/2012 1926			
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59714				Analysis Date: 10/01/2012 1447			
Prep Batch: 240-59624				Prep Date: 10/01/2012 0836			
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59337				Analysis Date: 09/27/2012 1045			

Analytical Data

Client: TRW Automotive

Job Number: 240-15149-1

General Chemistry**Client Sample ID: MW-101(09132012)**

Lab Sample ID: 240-15149-7

Date Sampled: 09/13/2012 1310

Client Matrix: Water

Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1801			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1801			
Fluoride-Dissolved	0.042	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1801			
Nitrate as N-Dissolved	0.86		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1801			
Bromide-Dissolved	0.085	J	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1801			
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57929				Analysis Date: 09/14/2012 1801			
Sulfate-Dissolved	7.3		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57928				Analysis Date: 09/14/2012 1801			
Bicarbonate Alkalinity as CaCO ₃	270		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-59259				Analysis Date: 09/25/2012 1936			
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-59259				Analysis Date: 09/25/2012 1936			
Total Phosphorus as PO ₄ -Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59714				Analysis Date: 10/01/2012 1447			
Prep Batch: 240-59624				Prep Date: 10/01/2012 0838			
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-59337				Analysis Date: 09/27/2012 1047			

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile Analyses

SDG #240-4572

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19010R
Review Level: Tier III
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) 240-15149 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-107BH@390'(20111005)	240-4572-1	Water	10/5/2011		X				
MW-107BH@360'(20111005)	240-4572-2	Water	10/5/2011		X				
MW-107BH@340'(20111005)	240-4572-3	Water	10/5/2011		X				
MW-108BH@340'(20111005)	240-4572-4	Water	10/5/2011		X				
MW-108BH@370'(20111005)	240-4572-5	Water	10/5/2011		X				
MW-108BH@390'(20111005)	240-4572-6	Water	10/5/2011		X				
TB-01(20111005)	240-4572-7	Water	10/5/2011		X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW-107BH@390'(20111005)	Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene	Detected sample results <RL and <BAL	"UB" at the RL

RL = reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD was not analyzed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not analyzed on a sample within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-108BH@340'(20111005)	Dichlorofluoromethane	--	79 D	79 D
MW-108BH@370'(20111005)	Dichlorofluoromethane	--	90 D	90 D
MW-108BH@390'(20111005)	Dichlorofluoromethane	--	100 D	100 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 14, 2013

PEER REVIEW: Dennis Capria

DATE: April 17, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

☐ RCRA ☐ Other
330-966-9279

TestAmerica Laboratories, Inc.

[illegible]

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-107BH@390'(20111005)

Lab Sample ID: 240-4572-1

Date Sampled: 10/05/2011 1145

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5890.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 1925			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 1925				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.36	J	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	15		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.34 1.0 UB	JB	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.52 1.0 UB	JB	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-107BH@390'(20111005)

Lab Sample ID: 240-4572-1

Date Sampled: 10/05/2011 1145

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5890.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 1925			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 1925				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	0.55 1.0 UB	J-B	0.17	1.0
1,2,4-Trichlorobenzene	0.27 1.0 UB	J-B	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.2		0.17	1.0
Trichlorofluoromethane	8.8		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
1,2-Dichloroethane-d4 (Surr)	114		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-107BH@360'(20111005)

Lab Sample ID: 240-4572-2

Date Sampled: 10/05/2011 1235

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5891.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 1947			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 1947				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.46	J	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	15		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-107BH@360'(20111005)

Lab Sample ID: 240-4572-2

Date Sampled: 10/05/2011 1235

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5891.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 1947			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 1947				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.2		0.17	1.0
Trichlorofluoromethane	10		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	115		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-107BH@340'(20111005)

Lab Sample ID: 240-4572-3

Date Sampled: 10/05/2011 1325

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5892.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2008			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2008				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.48	J	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	18		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-107BH@340'(20111005)

Lab Sample ID: 240-4572-3

Date Sampled: 10/05/2011 1325

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5892.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2008			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2008				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.4		0.17	1.0
Trichlorofluoromethane	13		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	105		75 - 121
1,2-Dichloroethane-d4 (Surr)	120		63 - 129
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@340'(20111005)

Lab Sample ID: 240-4572-4

Date Sampled: 10/05/2011 1500

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5893.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2030			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2030				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.48	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.66	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.1		0.31	1.0
1,1-Dichloroethane	2.1		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.98	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@340'(20111005)

Lab Sample ID: 240-4572-4

Date Sampled: 10/05/2011 1500

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5893.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2030			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2030				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.24	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.8		0.17	1.0
Trichlorofluoromethane	26		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	118		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@340'(20111005)

Lab Sample ID: 240-4572-4

Date Sampled: 10/05/2011 1500

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18965	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5932.D
Dilution:	3.333			Initial Weight/Volume:	5 mL
Analysis Date:	10/13/2011 1233			Final Weight/Volume:	5 mL
Prep Date:	10/13/2011 1233				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	79 D		1.4	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
1,2-Dichloroethane-d4 (Surr)	114		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@370'(20111005)

Lab Sample ID: 240-4572-5

Date Sampled: 10/05/2011 1550

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5894.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2052			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2052				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.50	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.82	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.7		0.31	1.0
1,1-Dichloroethane	2.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.2		0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@370'(20111005)

Lab Sample ID: 240-4572-5

Date Sampled: 10/05/2011 1550

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5894.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2052			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2052				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.28	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.3		0.17	1.0
Trichlorofluoromethane	30		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	117		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@370'(20111005)

Lab Sample ID: 240-4572-5

Date Sampled: 10/05/2011 1550

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18965	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5933.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/13/2011 1254			Final Weight/Volume:	5 mL
Prep Date:	10/13/2011 1254				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	90 D		1.7	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	120		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@390'(20111005)

Lab Sample ID: 240-4572-6

Date Sampled: 10/05/2011 1640

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5895.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2114			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2114				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.50	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.70	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.5		0.31	1.0
1,1-Dichloroethane	2.3		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.2		0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@390'(20111005)

Lab Sample ID: 240-4572-6

Date Sampled: 10/05/2011 1640

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5895.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2114			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2114				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.23	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.1		0.17	1.0
Trichlorofluoromethane	27		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	116		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: MW-108BH@390'(20111005)

Lab Sample ID: 240-4572-6

Date Sampled: 10/05/2011 1640

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18965	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5934.D
Dilution:	3.333			Initial Weight/Volume:	5 mL
Analysis Date:	10/13/2011 1316			Final Weight/Volume:	5 mL
Prep Date:	10/13/2011 1316				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	100 D		1.4	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	120		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: TB-01(20111005)

Lab Sample ID: 240-4572-7TB

Client Matrix: Water

Date Sampled: 10/05/2011 0000

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5896.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2135			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.29	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	0.34	J	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	0.15	J	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	5.0		0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-4572-1

Client Sample ID: TB-01(20111005)

Lab Sample ID: 240-4572-7TB

Date Sampled: 10/05/2011 0000

Client Matrix: Water

Date Received: 10/06/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-18841	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX5896.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/12/2011 2135			Final Weight/Volume:	5 mL
Prep Date:	10/12/2011 2135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	0.19	J	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		66 - 117
Dibromofluoromethane (Surr)	106		75 - 121
1,2-Dichloroethane-d4 (Surr)	119		63 - 129
Toluene-d8 (Surr)	96		74 - 115

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile Organic Compounds (VOCs), Metals, and
Miscellaneous Analyses.

SDG #s 240-12473, 240-12529, 240-12553, and
240-12605

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19016R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) 240-12473, 240-12529, 240-12553, and 240-12605 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
240-12473	MW-107S (20120619)	240-12473-1	Water	6/19/2012		X			X	X
	MW-107D (20120618)	240-12473-2	Water	6/18/2012		X			X	X
	MW-105 (20120619)	240-12473-3	Water	6/19/2012		X			X	X
	DUP-1 (20120619)	240-12473-4	Water	6/19/2012	MW-105 (20120619)	X			X	X
	TRIP BLANK	240-12473-5	Water	6/19/2012		X				
240-12529	MW-103 (20120619)	240-12529-1	Water	6/19/2012		X			X	X
	TB (20120619)	240-12529-2	Water	6/19/2012		X				
	ER (20120620)	240-12529-3	Water	6/20/2012		X			X	X
	MW-104 (20120620)	240-12529-4	Water	6/20/2012		X			X	X
	MW-108D (20120620)	240-12529-5	Water	6/20/2012		X			X	X
	MW-108S (20120620)	240-12529-6	Water	6/20/2012		X			X	X
240-12553	MW-102B (20120620)	240-12553-1	Water	6/20/2012		X			X	X
	VOSSWELL (20120621)	240-12553-2	Water	6/21/2012		X			X	X
	MW-1 (20120621)	240-12553-3	Water	6/21/2012		X			X	X
240-12605	MW-101 (20120622)	240-12605-1	Water	6/22/2012		X			X	X
	MW-1A (20120622)	240-12605-2	Water	6/21/2012		X			X	X
	MW-102A (20120622)	240-12605-3	Water	6/22/2012		X			X	X
	TRIP BLANK 6/22/2012	240-12605-4	Water	6/22/2012		X				

Note: Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Target compounds were detected in the associated QA blanks; however, the associated sample results were non-detect. Therefore, qualification of the sample results was not required.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on a sample location within these SDGs.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The spiked compounds used in the LCS analysis must exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with LCS analyses exhibiting recoveries outside of the control limits are presented in the following table.

Sample Location	Compound	LCS Recovery
TB(20120619) ER(20120620) MW-104(20120620) MW-108D(20120620) MW-108S(20120620)	Dibromomethane Dichlorodifluoromethane 1,2,3-Trichlorobenzene	> UL
MW-101(20120622) MW-1A(20120622)	1,1-Dichloroethane	> UL

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of any LCS deviations, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the reporting limit (RL), a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results (in µg/L) for the field duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-105 (20120619) / DUP-1 (20120619)	1,1-Dichloroethane	2.8	2.8	0.0 %
	Chloroform	0.26 J	0.25 J	AC
	Dichlorodifluoromethane	1.4	1.2	15.4 %

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-105 (20120619) / DUP-1 (20120619)	Dichloromonofluoromethane	40	35	13.3 %
	Tetrachloroethene	0.37 J	0.29 J	AC
	Trichloroethene	1.0	1.1	9.5 %
	Trichlorofluoromethane	7.6	6.9	9.7 %

AC Acceptable

J Estimated (result is < RL)

The field duplicate sample results are acceptable.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X		X	
C. Trip blanks		X	X		
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate (LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)					X
Matrix Spike Duplicate (MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 6020, 2320B, 9056, SM4500 NH3, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

E The reported value is estimated due to the presence of interference.

N Spiked sample recovery is not within control limits.

* Duplicate analysis is not within control limits.

- Validation Qualifiers

J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

UB Analyte considered non-detect at the listed value due to associated blank contamination.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010, 6020	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Location	Analyte	Sample Result	Qualification
MW-107S (20120619) MW-1(20120621)	Manganese	Detected sample results <RL and <BAL	"UB" at the RL
MW-107D (20120618) MW-104(20120620)	Lithium Manganese		
MW-105 (20120619) MW-103(20120619) MW-1A(20120622)	Manganese Zinc		
DUP-1 (20120619) MW-102B(20120620) VOSSWELL(20120621)	Zinc		
MW-108D(20120620)	Lithium Zinc		
MW-102A(20120622)	Lithium		
MW-104(20120620) MW-108S(20120620) MW-101(20120622)	Zinc	Detected sample results > RL and < BAL	"UB" at detected sample concentration

RL = reporting limit

3. Matrix Spike (MS)/Laboratory Duplicate Sample Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis was not performed on a sample location within these SDGs.

3.2 Laboratory Duplicate Sample Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the reporting limit (RL). A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of one times the RL is applied for water matrices and two times the RL for soil matrices.

The laboratory duplicate sample analysis was not performed on a sample location within these SDGs.

4. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-105 (20120619) / DUP-1 (20120619)	Barium	120 J	120 J	AC
	Boron	40 J	39 J	AC
	Calcium	72000	71000	1.4 %
	Lead	2.2 J	3.0 U	AC
	Magnesium	39000	38000	2.6 %
	Potassium	3300 J	3200 J	AC
	Silica	13000	13000	0.0 %
	Sodium	7600	7400	2.7 %
	Strontium	89	91	2.2 %

AC Acceptable

J Estimated (result is < RL)

U Not detected

The field duplicate sample results are acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution analysis was not performed on a sample location from within these SDGs.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010, 6020	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks					X	
B. Method Blanks		X	X			
C. Equipment/Field Blanks		X	X			
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R					X	
Matrix Spike Duplicate (MSD) %R					X	
MS/MSD Precision (RPD)					X	
Laboratory Duplicate (RPD)					X	
Field Duplicate (RPD)		X		X		
ICP Serial Dilution					X	
Reporting Limit Verification		X		X		
Moisture Content					X	

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C \pm 2°C.
Ammonia-N by SM4500 NH ₃	Water	28 days from collection to analysis	Cool to 4°C \pm 2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C \pm 2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C \pm 2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C \pm 2°C; preserved to a pH of less than 2.

The analyses that exceeded the holding time are presented in the following table.

Sample Location	Analyte	Analysis Completed	HT Criteria
MW-101(20120622)	Nitrate-N Nitrite-N	75 Hours	48 Hours
	ortho-Phosphate	99 Hours	48 Hours
MW-1A(20120622)	Nitrate-N Nitrite-N	92 Hours	48 Hours
	ortho-Phosphate	117 Hours	48 Hours
MW-102A(20120622)	Nitrate-N Nitrite-N	73 Hours	48 Hours
	ortho-Phosphate	98 Hours	48 Hours

Sample results were qualified as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed < 2x holding time	J	UJ
Analysis completed > 2x holding time	J	R

Note: Due to the ready conversion of nitrite into nitrate, nitrate results for samples analyzed greater than 48 hours after collection should be considered as nitrate+nitrite. The sample results were qualified as outlined in the table above.

Similarly, ortho-phosphate readily converts to a more stable form and may only be detected as total phosphorus after 48 hours. In the instance where the total phosphorus result for a sample location was non-detect; the data were qualified as estimated regardless of the exceedance in the holding time.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Location	Analyte	Sample Result	Qualification
MW-107S (20120619) MW-107D (20120618) MW-1(20120621)	Chloride	Detected sample results > RL and < BAL	"UB" at detected sample concentration
MW-101(20120622) MW-102A(20120622)	Ammonia	Detected sample results <RL and <BAL	"UB" at the RL
MW-105 (20120619) MW-103(20120619) MW-104(20120620) MW-108D(20120620) MW-108S(20120620) MW-102B(20120620) VOSSWELL(20120621) MW-101(20120622) MW-102A(20120622)	ortho-Phosphate		

RL = reporting limit

3. Matrix Spike (MS)/Laboratory Duplicate Sample Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

Sample locations MW-105 (20120619), MW-108D(20120620), MW-101(20120622), and MW-1A(20120622) were used in the MS/MSD analyses. All analytes associated with MS recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery
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Sample Location	Analyte	MS Recovery
MW-108D(20120620)	ortho-Phosphate	185 %
MW-101(20120622)	ortho-Phosphate	181 %

The criteria used to evaluate MS recoveries are presented in the following table. In the case of an MS deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS percent recovery < 30%	Non-detect	R
	Detect	J
MS percent recovery > 125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Sample Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to five times the reporting limit (RL). A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of one times the RL is applied for water matrices and two times the RL for soil matrices.

All analytes associated with the laboratory duplicate sample results exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-105 (20120619) / DUP-1 (20120619)	Bicarbonate Alkalinity	330	310	6.3 %
	Ammonia	0.043	0.20 U	AC
	Chloride	8.3	8.2	1.2 %
	Fluoride	0.015 J	0.020 J	AC
	Nitrate-N	1.8	1.7	5.7 %
	Sulfate	8.2	8.2	0.0 %

AC Acceptable

J Estimated (result is < RL)

U Not detected

The field duplicate sample results are acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

All analytes associated with the LCS analyses exhibited recoveries within the control limits.

6. System Performance and Overall Assessment


Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 2320B, 9056, SM4500 NH3, and SM4500 P-E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R					X
MS/MSD Precision (RPD)					X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X

%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference,
 %D – difference

VALIDATION PERFORMED BY: Dennis Dyke

SIGNATURE: 

DATE: April 15, 2013

PEER REVIEW: Dennis Capria

DATE: April 19, 2013

**CHAIN OF CUSTODY /
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

THE LEADER IN ENVIRONMENTAL TESTING

 Other07/06/2012

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4785.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1544			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1544				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.18	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.1		0.31	1.0
1,1-Dichloroethane	0.53	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.41	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4785.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1544			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1544				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.7		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	106		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49395	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4811.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2012 1452			Final Weight/Volume:	5 mL
Prep Date:	06/29/2012 1452				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	54	D	0.84	4.0
Trichlorofluoromethane	46	D	0.42	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	110		75 - 121
1,2-Dichloroethane-d4 (Surr)	113		63 - 129
Toluene-d8 (Surr)	101		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107D (20120618)

Lab Sample ID: 240-12473-2

Date Sampled: 06/18/2012 1755

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4786.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.7		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107D (20120618)

Lab Sample ID: 240-12473-2

Date Sampled: 06/18/2012 1755

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4786.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.23	J	0.17	1.0
Trichlorofluoromethane	3.0		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	98		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-105 (20120619)

Lab Sample ID: 240-12473-3

Date Sampled: 06/19/2012 1505

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49242

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4787.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/28/2012 1628

Final Weight/Volume: 5 mL

Prep Date: 06/28/2012 1628

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.26	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.4		0.31	1.0
1,1-Dichloroethane	2.8		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	40		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.37	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-105 (20120619)

Lab Sample ID: 240-12473-3

Date Sampled: 06/19/2012 1505

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4787.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1628			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1628				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0		0.17	1.0
Trichlorofluoromethane	7.6		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		66 - 117
Dibromofluoromethane (Surr)	111		75 - 121
1,2-Dichloroethane-d4 (Surr)	112		63 - 129
Toluene-d8 (Surr)	100		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: DUP-1 (20120619)

Lab Sample ID: 240-12473-4FD

Client Matrix: Water

Date Sampled: 06/19/2012 0000

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4788.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1651			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.25	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.2		0.31	1.0
1,1-Dichloroethane	2.8		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	35		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.29	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: DUP-1 (20120619)

Lab Sample ID: 240-12473-4FD

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49242

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4788.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/28/2012 1651

Final Weight/Volume: 5 mL

Prep Date: 06/28/2012 1651

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.1		0.17	1.0
Trichlorofluoromethane	6.9		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	111		63 - 129
Toluene-d8 (Surr)	101		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12473-5TB

Client Matrix: Water

Date Sampled: 06/19/2012 0000

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49242

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4789.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/28/2012 1714

Final Weight/Volume: 5 mL

Prep Date: 06/28/2012 1714

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12473-5TB

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4789.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1714			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		66 - 117
Dibromofluoromethane (Surr)	105		75 - 121
1,2-Dichloroethane-d4 (Surr)	112		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1301			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	54	J B	0.67	200
Boron	200	U	34	200
Calcium	55000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J	72	5000
Magnesium	30000	B	34	5000
Manganese	15 1.2	J-B UB	0.41	15
Sodium	3100	J	590	5000
Nickel	40	U	3.2	40
Zinc	410	B	5.0	20
Lead	3.2		1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9800		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1751			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	44	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107D (20120618)

Lab Sample ID: 240-12473-2

Date Sampled: 06/18/2012 1755

Client Matrix: Water

Date Received: 06/20/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1305			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	J B	0.67	200
Boron	200	U	34	200
Calcium	40000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J	72	5000
Magnesium	24000	B	34	5000
Manganese	15 1.5	J B UB	0.41	15
Sodium	3300	J	590	5000
Nickel	40	U	3.2	40
Zinc	250	B	5.0	20
Lead	2.5	J	1.9	3.0
Lithium	50 1.9	J UB	1.8	50
SiO2, Silica	9400		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1757			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	42	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-105 (20120619)

Lab Sample ID: 240-12473-3

Date Sampled: 06/19/2012 1505

Client Matrix: Water

Date Received: 06/20/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1308			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	JB	0.67	200
Boron	40	J	34	200
Calcium	72000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3300	J	72	5000
Magnesium	39000	B	34	5000
Manganese	15 0.41	JB UB	0.41	15
Sodium	7600		590	5000
Nickel	40	U	3.2	40
Zinc	20 7.8	JB UB	5.0	20
Lead	2.2	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1802			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	89	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: DUP-1 (20120619)

Lab Sample ID: 240-12473-4FD

Client Matrix: Water

Date Sampled: 06/19/2012 0000

Date Received: 06/20/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1312			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	JB	0.67	200
Boron	39	J	34	200
Calcium	71000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3200	J	72	5000
Magnesium	38000	B	34	5000
Manganese	15	U	0.41	15
Sodium	7400		590	5000
Nickel	40	U	3.2	40
Zinc	20 9.5	JB UB	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1808			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	91	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

General Chemistry

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	3.1	UB	mg/L	0.10	1.0 3.1	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0722						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1559						
Fluoride-Dissolved	0.064	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0722						
Nitrate as N-Dissolved	0.67		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1559						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0722						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1559						
Sulfate-Dissolved	18		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0722						
Bicarbonate Alkalinity as CaCO3	230		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1445						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1445						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-48934	Analysis Date: 06/26/2012 1432						
Prep Batch: 240-48834	Prep Date: 06/26/2012 0820						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49336	Analysis Date: 06/28/2012 1352						

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

General Chemistry

Client Sample ID: MW-107D (20120618)

Lab Sample ID: 240-12473-2

Date Sampled: 06/18/2012 1755

Client Matrix: Water

Date Received: 06/20/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.3	UB	mg/L	0.10	1.0 1.3	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0739						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1615						
Fluoride-Dissolved	0.051	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0739						
Nitrate as N-Dissolved	0.081	J	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1615						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0739						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1615						
Sulfate-Dissolved	14		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0739						
Bicarbonate Alkalinity as CaCO3	180		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1454						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1454						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-48934	Analysis Date: 06/26/2012 1429						
Prep Batch: 240-48834	Prep Date: 06/26/2012 0806						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49336	Analysis Date: 06/28/2012 1352						

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

General Chemistry

Client Sample ID: MW-105 (20120619)

Lab Sample ID: 240-12473-3

Client Matrix: Water

Date Sampled: 06/19/2012 1505

Date Received: 06/20/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.3		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0832					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1704					
Fluoride-Dissolved	0.015	J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0832					
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1704					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0832					
Orthophosphate-Dissolved	0.50 0.14	UB J	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1704					
Sulfate-Dissolved	8.2		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0832					
Bicarbonate Alkalinity as CaCO3	330		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1509					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1509					
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-48934	Analysis Date: 06/26/2012 1432					
	Prep Batch: 240-48834	Prep Date: 06/26/2012 0822					
Ammonia-Dissolved	0.043	J	mg/L	0.035	0.20	1.0	SM4500 NH3-F
	Analysis Batch: 240-49336	Analysis Date: 06/28/2012 1358					

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

General Chemistry

Client Sample ID: DUP-1 (20120619)

Lab Sample ID: 240-12473-4FD

Client Matrix: Water

Date Sampled: 06/19/2012 0000

Date Received: 06/20/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.2		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0906						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1721						
Fluoride-Dissolved	0.020	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0906						
Nitrate as N-Dissolved	1.7		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1721						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0906						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1721						
Sulfate-Dissolved	8.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0906						
Bicarbonate Alkalinity as CaCO3	310		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1520						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1520						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-48934	Analysis Date: 06/26/2012 1432						
Prep Batch: 240-48834	Prep Date: 06/26/2012 0825						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49336	Analysis Date: 06/28/2012 1403						

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07/06/2012

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49143	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX124707.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/27/2012 2212			Final Weight/Volume:	5 mL
Prep Date:	06/27/2012 2212				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	10	U	0.31	1.0
1,1-Dichloroethane	1.2		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.54	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.2		0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49143	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX124707.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/27/2012 2212			Final Weight/Volume:	5 mL
Prep Date:	06/27/2012 2212				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U 7	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.83	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.69	J	0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		66 - 117
Dibromofluoromethane (Surr)	114		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	106		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49143	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX124700.D
Dilution:	2.5			Initial Weight/Volume:	5 mL
Analysis Date:	06/27/2012 1924			Final Weight/Volume:	5 mL
Prep Date:	06/27/2012 1924				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	130 D		1.1	5.0
Trichlorofluoromethane	130 D		0.53	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	116		75 - 121
1,2-Dichloroethane-d4 (Surr)	106		63 - 129
Toluene-d8 (Surr)	105		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: TB(20120619)

Lab Sample ID: 240-12529-2

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124701.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 1948

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 1948

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.64	J	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: TB(20120619)

Lab Sample ID: 240-12529-2

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49143	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX124701.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/27/2012 1948			Final Weight/Volume:	5 mL
Prep Date:	06/27/2012 1948				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	121		75 - 121
1,2-Dichloroethane-d4 (Surr)	108		63 - 129
Toluene-d8 (Surr)	106		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: ER(20120620)

Lab Sample ID: 240-12529-3

Client Matrix: Water

Date Sampled: 06/20/2012 0830

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124702.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2013

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2013

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.30	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.47	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: ER(20120620)

Lab Sample ID: 240-12529-3

Date Sampled: 06/20/2012 0830

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124702.D


Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2013

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2013

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U 	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	119		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	105		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-104(20120620)

Lab Sample ID: 240-12529-4

Date Sampled: 06/20/2012 1110

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49143	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX124703.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/27/2012 2037			Final Weight/Volume:	5 mL
Prep Date:	06/27/2012 2037				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.19	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	4.8	J	0.31	1.0
1,1-Dichloroethane	0.78	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	71		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.42	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-104(20120620)

Lab Sample ID: 240-12529-4

Date Sampled: 06/20/2012 1110

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124703.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2037

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2037

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U*	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.1		0.17	1.0
Trichlorofluoromethane	39		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	113		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	108		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108D(20120620)

Lab Sample ID: 240-12529-5

Date Sampled: 06/20/2012 1455

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124704.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2101

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2101

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.7	J	0.31	1.0
1,1-Dichloroethane	1.1		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	58		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.63	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108D(20120620)

Lab Sample ID: 240-12529-5

Date Sampled: 06/20/2012 1455

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124704.D


Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2101

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2101

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U 	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.5		0.17	1.0
Trichlorofluoromethane	32		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	115		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	107		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108S(20120620)

Lab Sample ID: 240-12529-6

Date Sampled: 06/20/2012 1635

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124705.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2126

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2126

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.45	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.6	J	0.31	1.0
1,1-Dichloroethane	1.2		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	59		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.64	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108S(20120620)

Lab Sample ID: 240-12529-6

Date Sampled: 06/20/2012 1635

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-49143	Instrument ID: A3UX12
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UX124705.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 06/27/2012 2126		Final Weight/Volume: 5 mL
Prep Date: 06/27/2012 2126		

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U*	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.7		0.17	1.0
Trichlorofluoromethane	12		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	112		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	106		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1351			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	77	JB	0.67	200
Boron	200	U	34	200
Calcium	46000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	880	J	72	5000
Magnesium	24000	B	34	5000
Manganese	15 0.85	JB UB	0.41	15
Sodium	5000		590	5000
Nickel	40	U	3.2	40
Zinc	20 6.4	JB UB	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1906			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	41	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: ER(20120620)

Lab Sample ID: 240-12529-3

Date Sampled: 06/20/2012 0830

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1354			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	3.0	J B	0.67	200
Boron	200	U	34	200
Calcium	1000	J B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	65	J B	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	5.2	J B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	2.0	J	1.8	50
SiO2, Silica	1100	U	14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1912			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	10	U	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-104(20120620)

Lab Sample ID: 240-12529-4

Date Sampled: 06/20/2012 1110

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1358			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	92	J B	0.67	200
Boron	200	U	34	200
Calcium	80000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2100	J	72	5000
Magnesium	42000	B	34	5000
Manganese	15 1.1	J B UB	0.41	15
Sodium	8800		590	5000
Nickel	40	U	3.2	40
Zinc	52	B UB	5.0	20 52
Lead	3.2		1.9	3.0
Lithium	50 2.0	J UB	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1918			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	60	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108D(20120620)

Lab Sample ID: 240-12529-5

Date Sampled: 06/20/2012 1455

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1657			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180	J	0.67	200
Boron	200	U	34	200
Calcium	50000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1300	J	72	5000
Magnesium	29000		34	5000
Manganese	15	U	0.41	15
Sodium	4300	J	590	5000
Nickel	40	U	3.2	40
Zinc	20 16	J UB	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50 2.7	J-B UB	1.8	50
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1456			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	51		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108S(20120620)

Lab Sample ID: 240-12529-6

Date Sampled: 06/20/2012 1635

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1701			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	190	J	0.67	200
Boron	200	U	34	200
Calcium	73000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2300	J	72	5000
Magnesium	37000		34	5000
Manganese	76	B	0.41	15
Sodium	7200		590	5000
Nickel	5.6	J	3.2	40
Zinc	87	UB	5.0	20 87
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1501			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	100		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	13		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1626						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1626						
Fluoride-Dissolved	0.078	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1626						
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1626						
Bromide-Dissolved	0.18	J	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1626						
Orthophosphate-Dissolved	0.50 0.20	UB	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1626						
Orthophosphate-Dissolved	0.18	J H	mg/L	0.044	0.50	1.0	9056A
Run Type: RA	Analysis Date: 06/22/2012 1222						
Sulfate-Dissolved	0.82	J	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1626						
Bicarbonate Alkalinity as CaCO3	190		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 2114						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 2114						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0749						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0912						

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry

Client Sample ID: ER(20120620)

Lab Sample ID: 240-12529-3

Client Matrix: Water

Date Sampled: 06/20/2012 0830

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	0.73	J	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1642						
Nitrite as N-Dissolved	0.022	J	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1642						
Fluoride-Dissolved	1.0	U	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1642						
Nitrate as N-Dissolved	0.10	U	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1642						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1642						
Orthophosphate-Dissolved	0.18	J ^ *	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1642						
Orthophosphate-Dissolved	0.16	J H	mg/L	0.044	0.50	1.0	9056A
Run Type: RA	Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1239					
Sulfate-Dissolved	1.0	U	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1642						
Bicarbonate Alkalinity as CaCO3	2.9	J	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1537						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1537						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0750						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0929						

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry

Client Sample ID: MW-104(20120620)

Lab Sample ID: 240-12529-4

Client Matrix: Water

Date Sampled: 06/20/2012 1110

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	24		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1659						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1659						
Fluoride-Dissolved	0.035	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1659						
Nitrate as N-Dissolved	0.89		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1659						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1659						
Orthophosphate-Dissolved	0.50 0.19	UB J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1055						
Sulfate-Dissolved	6.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1659						
Bicarbonate Alkalinity as CaCO3	350		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1550						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1550						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0750						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0929						

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry

Client Sample ID: MW-108D(20120620)

Lab Sample ID: 240-12529-5

Date Sampled: 06/20/2012 1455

Client Matrix: Water

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325				Analysis Date: 06/21/2012 1821			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326				Analysis Date: 06/21/2012 1821			
Fluoride-Dissolved	0.053	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325				Analysis Date: 06/21/2012 1821			
Nitrate as N-Dissolved	0.37		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326				Analysis Date: 06/21/2012 1821			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325				Analysis Date: 06/21/2012 1821			
Orthophosphate-Dissolved	0.50 0.11	UB J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454				Analysis Date: 06/22/2012 1112			
Sulfate-Dissolved	13		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325				Analysis Date: 06/21/2012 1821			
Bicarbonate Alkalinity as CaCO3	220		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854				Analysis Date: 06/25/2012 1600			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854				Analysis Date: 06/25/2012 1600			
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474				Analysis Date: 06/29/2012 1424			
Prep Batch: 240-49375				Prep Date: 06/29/2012 0751			
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449				Analysis Date: 06/29/2012 0929			

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry

Client Sample ID: MW-108S(20120620)

Lab Sample ID: 240-12529-6

Date Sampled: 06/20/2012 1635

Client Matrix: Water

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	10		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1910						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1910						
Fluoride-Dissolved	0.033	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1910						
Nitrate as N-Dissolved	0.29		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1910						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1910						
Orthophosphate-Dissolved	0.50 0.29	UB J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1204						
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1910						
Bicarbonate Alkalinity as CaCO3	340		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1612						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1612						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1427						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0751						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0930						

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Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-102B(20120620)

Lab Sample ID: 240-12553-1

Date Sampled: 06/20/2012 1830

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5513.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2012 2349			Final Weight/Volume:	5 mL
Prep Date:	06/29/2012 2349				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.91	J	0.31	1.0
1,1-Dichloroethane	0.74	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	18		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-102B(20120620)

Lab Sample ID: 240-12553-1

Date Sampled: 06/20/2012 1830

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-49465	Instrument ID: A3UX11
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXJ5513.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 06/29/2012 2349		Final Weight/Volume: 5 mL
Prep Date: 06/29/2012 2349		

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.41	J	0.17	1.0
Trichlorofluoromethane	5.7		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5514.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2012 0012			Final Weight/Volume:	5 mL
Prep Date:	06/30/2012 0012				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.7		0.31	1.0
1,1-Dichloroethane	2.9		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.91	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5514.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2012 0012			Final Weight/Volume:	5 mL
Prep Date:	06/30/2012 0012				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.33	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.0		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49603	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5544.D
Dilution:	3.33			Initial Weight/Volume:	5 mL
Analysis Date:	07/02/2012 1513			Final Weight/Volume:	5 mL
Prep Date:	07/02/2012 1513				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	91	D	1.4	6.7
Trichlorofluoromethane	43	D	0.70	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		66 - 117
Dibromofluoromethane (Surr)	99		75 - 121
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-1(20120621)

Lab Sample ID: 240-12553-3

Date Sampled: 06/21/2012 1210

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5515.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2012 0035			Final Weight/Volume:	5 mL
Prep Date:	06/30/2012 0035				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-1(20120621)

Lab Sample ID: 240-12553-3

Date Sampled: 06/21/2012 1210

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5515.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2012 0035			Final Weight/Volume:	5 mL
Prep Date:	06/30/2012 0035				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	94		75 - 121
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12553-4TB

Date Sampled: 06/21/2012 0000

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49603

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ5545.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/02/2012 1536

Final Weight/Volume: 5 mL

Prep Date: 07/02/2012 1536

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12553-4TB

Client Matrix: Water

Date Sampled: 06/21/2012 0000

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-49603	Instrument ID: A3UX11
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXJ5545.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 07/02/2012 1536		Final Weight/Volume: 5 mL
Prep Date: 07/02/2012 1536		

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		66 - 117
Dibromofluoromethane (Surr)	99		75 - 121
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-102B(20120620)

Lab Sample ID: 240-12553-1

Date Sampled: 06/20/2012 1830

Client Matrix: Water

Date Received: 06/22/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1721			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	81	J	0.67	200
Boron	200	U	34	200
Calcium	55000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2400	J	72	5000
Magnesium	30000		34	5000
Manganese	15	U	0.41	15
Sodium	9000		590	5000
Nickel	40	U	3.2	40
Zinc	20 7.6	J UB	5.0	20
Lead	2.2	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	14000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1518			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	69		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1724			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	190	J	0.67	200
Boron	200	U	34	200
Calcium	52000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1400	J	72	5000
Magnesium	29000		34	5000
Manganese	15	U	0.41	15
Sodium	5400		590	5000
Nickel	40	U	3.2	40
Zinc	20 7.3	J UB	5.0	20
Lead	2.2	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	12000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1537			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	49		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-1(20120621)

Lab Sample ID: 240-12553-3

Date Sampled: 06/21/2012 1210

Client Matrix: Water

Date Received: 06/22/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1728			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	370		0.67	200
Boron	200	U	34	200
Calcium	35000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	450	J	72	5000
Magnesium	20000		34	5000
Manganese	15 0.44	JB UB	0.41	15
Sodium	2500	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9500		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1543			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	39		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

General Chemistry

Client Sample ID: MW-102B(20120620)

Lab Sample ID: 240-12553-1

Date Sampled: 06/20/2012 1830

Client Matrix: Water

Date Received: 06/22/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	9.0		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1331						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1331						
Fluoride-Dissolved	0.037	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1331						
Nitrate as N-Dissolved	0.76		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1331						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1331						
Orthophosphate-Dissolved	0.50 0.004	UB J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1331						
Sulfate-Dissolved	7.4		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1331						
Bicarbonate Alkalinity as CaCO3	250		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1549						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1549						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1427						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0752						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 1003						

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

General Chemistry

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.7		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1349						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1349						
Fluoride-Dissolved	0.045	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1349						
Nitrate as N-Dissolved	1.1		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1349						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1349						
Orthophosphate-Dissolved	0.50 0.083	UB J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1349						
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1349						
Bicarbonate Alkalinity as CaCO3	240		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1559						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1559						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1427						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0753						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 1003						

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

General Chemistry

Client Sample ID: MW-1(20120621)

Lab Sample ID: 240-12553-3

Date Sampled: 06/21/2012 1210

Client Matrix: Water

Date Received: 06/22/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.8	UB	mg/L	0.10	1.0 1.8	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1406						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1406						
Fluoride-Dissolved	0.045	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1406						
Nitrate as N-Dissolved	0.92		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1406						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1406						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1406						
Sulfate-Dissolved	4.4		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1406						
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1608						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1608						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1427						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0753						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 1003						

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

Regulatory program:

☐ DW☐ NPDES☐ RCRA☐ Other

TestAmerica Laboratories, Inc.

Client Contact		Client Project Manager:		Site Contact:		Lab Contact:		COC No:															
Company Name: Arcadis		John Shonfelt		Larry Benoit		Deniese Pehl		1 of 1 COCs															
Address: 8725 Roschill Rd Ste 350		Telephone: 913 492 0900		Telephone: 913 492-0900		Telephone: 866 785 5222																	
City/State/Zip: Lenexa, KS 66215		Email: john.shonfelt@arcadis-us.com		Analysis turnaround time: 5 wk		Analytes: VOCs 8260B Metals 6010D/6020 M-sew 7470A Anions 9065A Ammonia Phosphorus Alkalinity 2820B Total Phosphorus																	
Phone: 913 492-0900				TAT if different from below: <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day																			
Project Name: TRW-002		Method of Shipment/Carrier: Fed Ex																					
Project Number: KCO01590.00003		Shipping/Tracking No: 8756 5245 2918																					
P.O.#																							
Sample Identification		Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other	Sample Specific Notes / Special Instructions:							
MW-101 (20120622)	6-22-12 0955		X						1	2	3			2	N	X	X	X	X	X	X	X	Not Field Filtered
MW-1A (20120621)	6-21-12 1705		X						1	2	3			2		X	X	X	X	X	X	X	
MW-102A (20120622)	6-22-12 1215		X						1	2	3			2		X	X	X	X	X	X	X	
Trip Blank	6-22-12 -		X								1					X							Trip Blank
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																					
Special Instructions/QC Requirements & Comments: MW-101 (20120622) is not Field Filtered																							
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:													
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:													
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:													

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Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4865.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1632			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.58	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.8		0.31	1.0
1,1-Dichloroethane	0.32	J /	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	20		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.33	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49717

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4865.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/03/2012 1632

Final Weight/Volume: 5 mL

Prep Date: 07/03/2012 1632

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.8		0.17	1.0
Trichlorofluoromethane	18		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	103		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4866.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1655			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1655				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.55	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.75	J	0.31	1.0
1,1-Dichloroethane	0.65	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	23		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4866.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1655			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1655				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.88	J	0.17	1.0
Trichlorofluoromethane	5.0		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	113		75 - 121
1,2-Dichloroethane-d4 (Surr)	112		63 - 129
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49859

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ5599.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/05/2012 1338

Final Weight/Volume: 5 mL

Prep Date: 07/05/2012 1338

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.5		0.31	1.0
1,1-Dichloroethane	1.3		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	17		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49859	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5599.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2012 1338			Final Weight/Volume:	5 mL
Prep Date:	07/05/2012 1338				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.81	J	0.17	1.0
Trichlorofluoromethane	9.4		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12605-4TB

Client Matrix: Water

Date Sampled: 06/22/2012 0000

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49859

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ5600.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/05/2012 1400

Final Weight/Volume: 5 mL

Prep Date: 07/05/2012 1400

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.7	B	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12605-4TB

Date Sampled: 06/22/2012 0000

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49859	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5600.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2012 1400			Final Weight/Volume:	5 mL
Prep Date:	07/05/2012 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	94		75 - 121
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Client Matrix: Water

Date Sampled: 06/22/2012 0955

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-50182	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49871	Lab File ID:	I9070612A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/07/2012 0232			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Boron	200	U	34	200
Barium	55	J B	0.67	200
Calcium	57000	B	130	5000
Chromium	5.0	U	2.2	5.0
Potassium	1900	J	72	5000
Manganese	15	U	0.41	15
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	50 27	J B UB	5.0	50
Lithium	11	J	1.8	50
SiO2, Silica	9000	B	14	1100

Analysis Method:	6010B	Analysis Batch:	240-50312	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49871	Lab File ID:	I9070912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/09/2012 1853			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	100	U	81	100
Magnesium	32000	B	34	5000
Sodium	4900	J	590	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-50170	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49878	Lab File ID:	I8070612A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/06/2012 1312			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 1003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	52	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1740			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	J	0.67	200
Boron	43	J	34	200
Calcium	62000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2700	J	72	5000
Magnesium	32000		34	5000
Manganese	15 0.81	J UB	0.41	15
Sodium	5600		590	5000
Nickel	40	U	3.2	40
Zinc	20 5.5	J UB	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1600			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	91		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1744			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	50	J	0.67	200
Boron	200	U	34	200
Calcium	39000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	830	J	72	5000
Magnesium	21000		34	5000
Manganese	15	U	0.41	15
Sodium	2800	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50 1.8	JB UB	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1605			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	41		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Client Matrix: Water

Date Sampled: 06/22/2012 0955

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.4		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-50113	Analysis Date: 07/06/2012 1958					
Nitrite as N	0.10	UJ JH	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1235					
Fluoride-Dissolved	0.043	J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-50113	Analysis Date: 07/06/2012 1958					
Nitrate as N	0.82	J H	mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1235					
Bromide-Dissolved	0.088	J	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-50113	Analysis Date: 07/06/2012 1958					
Orthophosphate	0.50 0.19	UBJ JH	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-48902	Analysis Date: 06/26/2012 1323					
Sulfate-Dissolved	7.2		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-50113	Analysis Date: 07/06/2012 1958					
Bicarbonate Alkalinity as CaCO3	260		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1645					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1645					
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-49478	Analysis Date: 06/29/2012 1604					
	Prep Batch: 240-49419	Prep Date: 06/29/2012 0751					
Ammonia-Dissolved	0.20 0.062	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-50397	Analysis Date: 07/10/2012 1256					

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48696							
Nitrite as N-Dissolved	0.10	UJ UH	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48697							
Fluoride-Dissolved	0.042	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48696							
Nitrate as N-Dissolved	1.6	J HH	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48697							
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48696							
Orthophosphate-Dissolved	0.50	U H J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48902							
Sulfate-Dissolved	6.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48696							
Bicarbonate Alkalinity as CaCO3	280		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573							
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573							
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474							
Prep Batch: 240-49375							
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-50241							
Analysis Date: 07/09/2012 0835							

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48696				Analysis Date: 06/25/2012 1252			
Nitrite as N-Dissolved	0.10	UJ UH	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48697				Analysis Date: 06/25/2012 1252			
Fluoride-Dissolved	0.050	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48696				Analysis Date: 06/25/2012 1252			
Nitrate as N-Dissolved	1.2	J H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48697				Analysis Date: 06/25/2012 1252			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48696				Analysis Date: 06/25/2012 1252			
Orthophosphate-Dissolved	0.50 0.054	UB JH J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48902				Analysis Date: 06/26/2012 1433			
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48696				Analysis Date: 06/25/2012 1252			
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49870				Analysis Date: 07/03/2012 1643			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49870				Analysis Date: 07/03/2012 1643			
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474				Analysis Date: 06/29/2012 1424			
Prep Batch: 240-49375				Prep Date: 06/29/2012 0748			
Ammonia-Dissolved	0.20 0.049	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-50241				Analysis Date: 07/09/2012 0835			

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile, Metals, and Misc. Analyses

SDGs #240-9083, 240-9136, 240-9209, and
240-9246

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19034R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) 240-9083, 240-9136, 240-9209, and 240-9246 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample Delivery Group	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
240-9083	MW107S(20120305)	240-9083-1	Water	3/5/2012		X			X	X
	MW107D(20120305)	240-9083-2	Water	3/5/2012		X			X	X
	DUP(20120305)	240-9083-3	Water	3/5/2012	MW107S(20120305)	X			X	X
	MW108D(20120306)	240-9083-4	Water	3/6/2012		X			X	X
	MW108S(20120306)	240-9083-5	Water	3/6/2012		X			X	X
	MW102A(20120306)	240-9083-6	Water	3/6/2012		X			X	X
	MW102B(20120306)	240-9083-7	Water	3/6/2012		X			X	X
	MW105(20120307)	240-9083-8	Water	3/7/2012		X			X	X
	MW101(20120307)	240-9083-9	Water	3/7/2012		X			X	X
	EB-01(20120308)	240-9083-10	Water	3/8/2012		X			X	X
	MW103(20120308)	240-9083-11	Water	3/8/2012		X			X	X
	TB-01(20120308)	240-9083-12	Water	3/8/2012		X				
240-9136	MW-104(20120309)	240-9136-1	Water	3/9/2012		X			X	X
	VOSS(20120309)	240-9136-2	Water	3/9/2012		X			X	X
	TB-02(20120309)	240-9136-3	Water	3/9/2012		X				
240-9209	MW-1 (20120313)	240-9209-1	Water	3/13/2012		X			X	X
	TB-03 (20120313)	240-9209-2	Water	3/13/2012		X				
240-9246	MW-1A(20120314)	240-9246-1	Water	3/14/2012		X			X	X
	TB-04(20120314)	240-9246-2	Water	3/14/2012		X				

Note:

- Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.
- The matrix spike/matrix spike duplicates (MS/MSD) were performed on sample locations MW107S(20120305) for metals and miscellaneous.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW107D(20120305)	Naphthalene 1,2,3-Trichlorobenzene	Detected sample results <RL and <BAL	"UB" at the RL
DUP(20120305)	Methylene chloride		

RL = reporting limit

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD was not analyzed on a sample within this data set.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
MW-1 (20120313) TB-03 (20120313)	cis-1,3-Dichloropropene	>UL	-

AC = Acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW107S(20120305)/ DUP(20120305)	1,1,1-Trichloroethane	0.24 J	0.25 J	AC
	1,1-Dichloroethane	0.5 J	0.52 J	AC
	1,1-Dichloroethene	0.2 J	0.24 J	AC
	Chloroform	0.24 J	0.28 J	AC
	Dichlorodifluoromethane	3.1	3.2	3.1%
	Dichlorofluoromethane	67	65	3.0%
	Tetrachloroethene	0.42 J	0.41 J	AC
	Toluene	0.24 J	0.25 J	AC
	Trichloroethene	2.8	3	6.8%
	Trichlorofluoromethane	55	58	5.3%

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. System Performance and Overall Assessment

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW107S(20120305)	Dichlorofluoromethane	--	67 D	67 D
	Trichlorofluoromethane	--	55 D	55 D
DUP(20120305)	Dichlorofluoromethane	--	65 D	65 D
	Trichlorofluoromethane	--	58 D	58 D
MW108D(20120306)	Dichlorofluoromethane	--	96 D	96 D
	Trichlorofluoromethane	--	38 D	38 D
MW108S(20120306)	Dichlorofluoromethane	--	71 D	71 D
MW105(20120307)	Dichlorofluoromethane	--	45 D	45 D
MW103(20120308)	Dichlorofluoromethane	--	150 D	150 D
	Trichlorofluoromethane	--	130 D	130 D
MW-104(20120309)	Dichlorofluoromethane	--	51 D	51 D
VOSS(20120309)	Dichlorofluoromethane	--	68 D	68 D
	Trichlorofluoromethane	--	40 D	40 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 2320B, 9056, SM4500 NH₃, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.

- N Spiked sample recovery is not within control limits.

- * Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

- UB Analyte considered non-detect at the listed value due to associated blank contamination.

- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
DUP(20120305) MW103(20120308) MW-1 (20120313)	Potassium	Detected sample results <RL and <BAL	"UB" at the RL
MW103(20120308) MW-104(20120309) VOSS(20120309) MW-1A(20120314)	Manganese		
VOSS(20120309) MW-1A(20120314)	Zinc		
MW107S(20120305) MW105(20120307)	Boron		

RL = reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS/MSD analysis exhibited acceptable recoveries and RPD between recoveries.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW107S(20120305)/ DUP(20120305)	Barium	60 J	58 J	AC
	Calcium	57000	56000	1.7%
	Lead	3	3.8	23.5%
	Magnesium	30000	29000	3.3%
	Manganese	1.5 J	1.6 J	AC
	Potassium	1100J	980J	AC
	SiO ₂ , Silica	9200	9200	0.0%
	Sodium	2500 J	2200 J	AC
	Zinc	740	720	2.7%
	Strontium	49	47	4.1%

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution was not performed on a sample location within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks					X	
B. Method Blanks		X	X			
C. Equipment/Field Blanks					X	
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
ICP Serial Dilution					X	
Reporting Limit Verification		X		X		
Raw Data		X		X		

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Ammonia-N by SM4500 NH ₃	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C±2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

The analyses that exceeded the holding time are presented in the following table.

Sample Locations	Analyte	Holding Time	Criteria
MW107S(20120305) MW107D(20120305) DUP(20120305) MW108D(20120306) MW108S(20120306) MW102A(20120306)	Nitrate Nitrite Orthophosphate	>96 hours	<48 hours
MW102B(20120306) MW105(20120307) MW101(20120307)	Nitrate Nitrite Orthophosphate	>48 hours but <96 hours	<48 hours

Sample results associated with sample locations analyzed by analytical method SW-846 9056 were qualified, as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed less than two times holding time	J	UJ
Analysis completed greater than two times holding time	J	R

Note: Due to the ready conversion of nitrite into nitrate, nitrate results for samples analyzed greater than 48 hours after collection should be considered as nitrate+nitrite. The sample results were qualified as outlined in the table above.

Similarly, ortho-phosphate readily converts to a more stable form and may only be detected as total phosphorus after 48 hours. In the instance where the total phosphorus result for a sample location was non-detect; the data were qualified as estimated regardless of the exceedance in the holding time.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW107S(20120305) MW107D(20120305) MW108D(20120306) MW102A(20120306) MW102B(20120306) MW105(20120307) MW101(20120307) MW103(20120308)	Ammonia	Detected sample results <RL and <BAL	"UB" at the RL
MW107D(20120305) MW103(20120308)	Orthophosphate	Detected sample results >RL and <BAL	"UB" at detected sample concentration
MW108S(20120306) DUP(20120305)	Ammonia		

RL = reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
MW107S(20120305)	Orthophosphate	>UL	--
MW105(20120307)	Orthophosphate	<10%	--
MW-1 (20120313)	Orthophosphate	>UL	--
MW-1A(20120314)	Fluoride	>UL	--

AC = Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

An MS/MSD was performed in replacement of the laboratory duplicate. All analytes associated with MS/MSD recoveries exhibited RPD within control limits.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW107S(20120305)/ DUP(20120305)	Alkalinity	250	240	4.0 %
	Chloride	2.8	2.9	3.5 %
	Fluoride	0.052 J	0.062 J	AC

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
	Nitrate-N	0.68	0.71	4.3 %
	Sulfate	17	17	0.0 %

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

All LCS recoveries were within control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 1677	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R - percent recovery, RPD - relative percent difference,
 %D – difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 15, 2013

PEER REVIEW: Dennis Capria

DATE: April 18, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

North Canton, OH (4101 Shuffel Drive) 44720

Regulatory program:

☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact:		Client Project Manager:		Site Contact:		Lab Contact:		COC No:	
Company Name: ARCADIS		John Shonfelt		Stephen Schmitz		Denise Pohl		022308	
Address: 8725 Rosehill-Suite 350		Telephone: (913) 492-0900 X 11		Telephone: (913) 608-2808		Telephone: (330) 966-9789		1 of 2 COCs	
City/State/Zip: LENEXA/KS/66215		Email: John.shonfelt@paradis-us.com		Analysis Turnaround Time (in BUS days)		Analyses		For lab use only	
Phone: (913) 492-0900				TAT if different from below				Walk-in client <input type="checkbox"/>	
Project Name: TRW OGV 002		Method of Shipment/Carrier: FED EX		<input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Lab pickup <input type="checkbox"/>	
Project Number: KC00 1590.0003.00002		Shipping/Tracking No: 8762 6303 3248						Lab sampling <input type="checkbox"/>	
P O #								Job/SDG No:	
Sample Identification		Sample Date		Sample Time		Matrix		Containers & Preservatives	
						Air Aqueous Sediment Solid Other		H2SO4 HNO3 HCl NaOH ZnAc/NaOH Unpres Other	
								Filtered Sample (Y/N) Composite C/Grab G	
								VOCs (8260B) Metals (6010B/6020) Metals (6010B) Anions (9056A) Alkalinity (2320B)	
MW107S (20120305)		3/1/12		15:35		X		2 3 2	
MW 107d (20120305)		3/05/12		13:34		X		2 3 2	
DUP (20120305)		3/05/12		—		X		2 3 2	
MW 108d (20120306)		03/06/12		10:20		X		2 3 2	
MW 108S (20120306)		03/06/12		12:20		X		2 3 2	
MW 102A (20120306)		03/06/12		15:45		X		2 3 2	
MW 102B (20120306)		03/06/12		17:35		X		2 3 2	
MW 105 (20120307)		03/07/12		10:05		X		2 3 2	
MW 101 (20120307)		03/07/12		13:50		X		2 3 2	
EB-01 (20120308)		03/08/12		12:45		X		2 3 2	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Special Instructions/QC Requirements & Comments:									
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
8/12/12		ARCADIS		03/08/12 15:30					
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	
						Ch Lijil		T-112	
								3/9/12 1010	

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

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DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-9083-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW107S(20120305)

Lab Sample ID: 240-9083-1

Date Sampled: 03/05/2012 1535

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-36681

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX0213.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/13/2012 2133

Final Weight/Volume: 5 mL

Prep Date: 03/13/2012 2133

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.24	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.1		0.31	1.0
1,1-Dichloroethane	0.50	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.20	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.42	J	0.29	1.0
Toluene	0.24	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW107S(20120305)

Lab Sample ID: 240-9083-1

Date Sampled: 03/05/2012 1535

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0213.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2133			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2133				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.24	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.8		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	107		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW107S(20120305)

Lab Sample ID: 240-9083-1

Date Sampled: 03/05/2012 1535

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36821	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0227.D
Dilution:	2.22			Initial Weight/Volume:	5 mL
Analysis Date:	03/14/2012 1738			Final Weight/Volume:	5 mL
Prep Date:	03/14/2012 1738				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	67 D		0.93	4.4
Trichlorofluoromethane	55 D		0.47	2.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW107D(20120305)

Lab Sample ID: 240-9083-2

Date Sampled: 03/05/2012 1334

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0205.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 1842			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 1842				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.34	J	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	7.2		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.48 1.0 UB	J-B	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW107D(20120305)

Lab Sample ID: 240-9083-2

Date Sampled: 03/05/2012 1334

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0205.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 1842			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 1842				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	0.19 1.0 UB	JB	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.49	J	0.17	1.0
Trichlorofluoromethane	7.7		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: DUP(20120305)

Lab Sample ID: 240-9083-3FD

Client Matrix: Water

Date Sampled: 03/05/2012 0000

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0214.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2155			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2155				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.28	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.2		0.31	1.0
1,1-Dichloroethane	0.52	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.24	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.35 1.0 UB	JB	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.41	J	0.29	1.0
Toluene	0.25	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: DUP(20120305)

Lab Sample ID: 240-9083-3FD

Date Sampled: 03/05/2012 0000

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0214.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2155			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2155				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.25	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.0		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	107		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: DUP(20120305)

Lab Sample ID: 240-9083-3FD

Date Sampled: 03/05/2012 0000

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36821	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0228.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/14/2012 1759			Final Weight/Volume:	5 mL
Prep Date:	03/14/2012 1759				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	65	D	0.84	4.0
Trichlorofluoromethane	58	D	0.42	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	106		75 - 121
1,2-Dichloroethane-d4 (Surr)	100		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW108D(20120306)

Lab Sample ID: 240-9083-4

Date Sampled: 03/06/2012 1020

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-36681

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX0215.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/13/2012 2216

Final Weight/Volume: 5 mL

Prep Date: 03/13/2012 2216

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.34	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.58	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.1		0.31	1.0
1,1-Dichloroethane	1.8		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.20	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.89	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW108D(20120306)

Lab Sample ID: 240-9083-4

Date Sampled: 03/06/2012 1020

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0215.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2216			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2216				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.22	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.9		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		66 - 117
Dibromofluoromethane (Surr)	111		75 - 121
1,2-Dichloroethane-d4 (Surr)	101		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW108D(20120306)

Lab Sample ID: 240-9083-4

Date Sampled: 03/06/2012 1020

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36821	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0229.D
Dilution:	3.33			Initial Weight/Volume:	5 mL
Analysis Date:	03/14/2012 1820			Final Weight/Volume:	5 mL
Prep Date:	03/14/2012 1820				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	96	D	1.4	6.7
Trichlorofluoromethane	38	D	0.70	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	111		75 - 121
1,2-Dichloroethane-d4 (Surr)	103		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW108S(20120306)

Lab Sample ID: 240-9083-5

Date Sampled: 03/06/2012 1220

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0206.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 1903			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 1903				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.33	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.59	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.6		0.31	1.0
1,1-Dichloroethane	1.6		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.57	J	0.29	1.0
Toluene	0.18	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW108S(20120306)

Lab Sample ID: 240-9083-5

Date Sampled: 03/06/2012 1220

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0206.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 1903			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 1903				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.4		0.17	1.0
Trichlorofluoromethane	10		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW108S(20120306)

Lab Sample ID: 240-9083-5

Date Sampled: 03/06/2012 1220

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36821	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0230.D
Dilution:	2.22			Initial Weight/Volume:	5 mL
Analysis Date:	03/14/2012 1842			Final Weight/Volume:	5 mL
Prep Date:	03/14/2012 1842				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	71	D	0.93	4.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	110		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW102A(20120306)

Lab Sample ID: 240-9083-6

Date Sampled: 03/06/2012 1545

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-36681

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX0207.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/13/2012 1925

Final Weight/Volume: 5 mL

Prep Date: 03/13/2012 1925

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.6		0.31	1.0
1,1-Dichloroethane	1.4		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.22	J	0.19	1.0
Dichlorofluoromethane	21		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW102A(20120306)

Lab Sample ID: 240-9083-6

Date Sampled: 03/06/2012 1545

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0207.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 1925			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 1925				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.77	J	0.17	1.0
Trichlorofluoromethane	11		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		66 - 117
Dibromofluoromethane (Surr)	102		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW102B(20120306)

Lab Sample ID: 240-9083-7

Date Sampled: 03/06/2012 1735

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0208.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 1946			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 1946				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.5		0.31	1.0
1,1-Dichloroethane	0.96	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	27		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.37	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW102B(20120306)

Lab Sample ID: 240-9083-7

Date Sampled: 03/06/2012 1735

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0208.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 1946			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 1946				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.52	J	0.17	1.0
Trichlorofluoromethane	12		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	105		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW105(20120307)

Lab Sample ID: 240-9083-8

Date Sampled: 03/07/2012 1005

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-36681

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX0209.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/13/2012 2007

Final Weight/Volume: 5 mL

Prep Date: 03/13/2012 2007

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.24	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.28	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.7		0.31	1.0
1,1-Dichloroethane	2.9		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.42	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW105(20120307)

Lab Sample ID: 240-9083-8

Date Sampled: 03/07/2012 1005

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0209.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2007			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2007				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.1		0.17	1.0
Trichlorofluoromethane	8.4		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW105(20120307)

Lab Sample ID: 240-9083-8

Date Sampled: 03/07/2012 1005

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36821	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0231.D
Dilution:	1.43			Initial Weight/Volume:	5 mL
Analysis Date:	03/14/2012 1903			Final Weight/Volume:	5 mL
Prep Date:	03/14/2012 1903				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	45	D	0.60	2.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	115		75 - 121
1,2-Dichloroethane-d4 (Surr)	106		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW101(20120307)

Lab Sample ID: 240-9083-9

Date Sampled: 03/07/2012 1350

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-36681

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX0210.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/13/2012 2029

Final Weight/Volume: 5 mL

Prep Date: 03/13/2012 2029

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.18	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.73	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.5		0.31	1.0
1,1-Dichloroethane	0.37	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	24		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW101(20120307)

Lab Sample ID: 240-9083-9

Date Sampled: 03/07/2012 1350

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-36681

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX0210.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/13/2012 2029

Final Weight/Volume: 5 mL

Prep Date: 03/13/2012 2029

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.2		0.17	1.0
Trichlorofluoromethane	22		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		66 - 117
Dibromofluoromethane (Surr)	109		75 - 121
1,2-Dichloroethane-d4 (Surr)	100		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: EB-01(20120308)

Lab Sample ID: 240-9083-10

Date Sampled: 03/08/2012 1245

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0211.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2050			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2050				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.37	J B	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: EB-01(20120308)

Lab Sample ID: 240-9083-10

Date Sampled: 03/08/2012 1245

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0211.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2050			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2050				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	110		75 - 121
1,2-Dichloroethane-d4 (Surr)	100		63 - 129
Toluene-d8 (Surr)	98		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW103(20120308)

Lab Sample ID: 240-9083-11

Date Sampled: 03/08/2012 1450

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0216.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2237			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2237				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.48	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	5.9		0.31	1.0
1,1-Dichloroethane	1.6		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.67	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.3		0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW103(20120308)

Lab Sample ID: 240-9083-11

Date Sampled: 03/08/2012 1450

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0216.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2237			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2237				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0		0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.77	J	0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	110		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW103(20120308)

Lab Sample ID: 240-9083-11

Date Sampled: 03/08/2012 1450

Client Matrix: Water

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36821	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0232.D
Dilution:	6.67			Initial Weight/Volume:	5 mL
Analysis Date:	03/14/2012 1924			Final Weight/Volume:	5 mL
Prep Date:	03/14/2012 1924				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	150	D	2.8	13
Trichlorofluoromethane	130	D	1.4	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	107		75 - 121
1,2-Dichloroethane-d4 (Surr)	101		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: TB-01(20120308)

Lab Sample ID: 240-9083-12TB

Client Matrix: Water

Date Sampled: 03/08/2012 0000

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0212.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2111			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2111				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.39	J B	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: TB-01(20120308)

Lab Sample ID: 240-9083-12TB

Client Matrix: Water

Date Sampled: 03/08/2012 0000

Date Received: 03/09/2012 1010

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-36681	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX0212.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/13/2012 2111			Final Weight/Volume:	5 mL
Prep Date:	03/13/2012 2111				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	109		75 - 121
1,2-Dichloroethane-d4 (Surr)	101		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW107S(20120305)

Lab Sample ID: 240-9083-1

Date Sampled: 03/05/2012 1535

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1438			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	60	J	0.67	200
Boron	64 200	J UB	34	200
Calcium	57000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J B	72	5000
Magnesium	30000	B	34	5000
Manganese	1.5	J	0.41	15
Sodium	2500	J	590	5000
Nickel	40	U	3.2	40
Zinc	740		5.0	20
Lead	3.0		1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1801			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9200		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1535			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	49	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW107D(20120305)

Lab Sample ID: 240-9083-2

Date Sampled: 03/05/2012 1334

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1539			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	150	J	0.67	200
Boron	200	U	34	200
Calcium	40000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J B	72	5000
Magnesium	23000	B	34	5000
Manganese	1.1	J	0.41	15
Sodium	2400	J	590	5000
Nickel	40	U	3.2	40
Zinc	390		5.0	20
Lead	2.2	J	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1820			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	8800		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1539			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	45	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: DUP(20120305)

Lab Sample ID: 240-9083-3FD

Client Matrix: Water

Date Sampled: 03/05/2012 0000

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1545			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	58	J	0.67	200
Boron	200	U	34	200
Calcium	56000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	900 5000 UB	J-B	72	5000
Magnesium	29000	B	34	5000
Manganese	1.6	J	0.41	15
Sodium	2200	J	590	5000
Nickel	40	U	3.2	40
Zinc	720		5.0	20
Lead	3.8		1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1825			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9200		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1556			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	47	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW108D(20120306)

Lab Sample ID: 240-9083-4

Date Sampled: 03/06/2012 1020

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1551			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180	J	0.67	200
Boron	200	U	34	200
Calcium	59000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1400	J B	72	5000
Magnesium	32000	B	34	5000
Manganese	0.48	J	0.41	15
Sodium	4000	J	590	5000
Nickel	40	U	3.2	40
Zinc	31		5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1840			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	10000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1600			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	58	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW108S(20120306)

Lab Sample ID: 240-9083-5

Date Sampled: 03/06/2012 1220

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1557			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	200		0.67	200
Boron	200	U	34	200
Calcium	78000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2600	J B	72	5000
Magnesium	39000	B	34	5000
Manganese	81		0.41	15
Sodium	6200		590	5000
Nickel	7.4	J	3.2	40
Zinc	170		5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1845			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	13000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1604			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	120	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW102A(20120306)

Lab Sample ID: 240-9083-6

Date Sampled: 03/06/2012 1545

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1616			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	51	J	0.67	200
Boron	200	U	34	200
Calcium	40000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J B	72	5000
Magnesium	21000	B	34	5000
Manganese	1.6	J	0.41	15
Sodium	2000	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1850			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9400		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1609			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	40	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW102B(20120306)

Lab Sample ID: 240-9083-7

Date Sampled: 03/06/2012 1735

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1622			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	82	J	0.67	200
Boron	200	U	34	200
Calcium	55000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2400	J B	72	5000
Magnesium	28000	B	34	5000
Manganese	15	U	0.41	15
Sodium	7800		590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	2.5	J	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1855			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	13000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1628			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	69	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW105(20120307)

Lab Sample ID: 240-9083-8

Date Sampled: 03/07/2012 1005

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1628			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	J	0.67	200
Boron	36 200 UB	J B	34	200
Calcium	70000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3100	J B	72	5000
Magnesium	37000	B	34	5000
Manganese	15	U	0.41	15
Sodium	6400		590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1900			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	12000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1632			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	96	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW101(20120307)

Lab Sample ID: 240-9083-9

Date Sampled: 03/07/2012 1350

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1634			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	62	J	0.67	200
Boron	200	U	34	200
Calcium	58000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	120		81	100
Potassium	1500	J B	72	5000
Magnesium	31000	B	34	5000
Manganese	15	U	0.41	15
Sodium	3900	J	590	5000
Nickel	40	U	3.2	40
Zinc	35		5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1905			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	10000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1636			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	56	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: EB-01(20120308)

Lab Sample ID: 240-9083-10

Date Sampled: 03/08/2012 1245

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37003	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-36692	Lab File ID:	I60315A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/15/2012 1640			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 0645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	1.8	J	0.67	200
Boron	200	U	34	200
Calcium	920	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	210	J B	72	5000
Magnesium	590	J B	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1911			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	220	J	29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1640			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	10	U	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

Client Sample ID: MW103(20120308)

Lab Sample ID: 240-9083-11

Date Sampled: 03/08/2012 1450

Client Matrix: Water

Date Received: 03/09/2012 1010

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37273	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-37001	Lab File ID:	I50319A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/19/2012 1859			Final Weight/Volume:	50 mL
Prep Date:	03/16/2012 0648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	69	J B	0.67	200
Calcium	42000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	900 5000 UB	J B	72	5000
Magnesium	23000	B	34	5000
Manganese	0.87 15 UB	J B	0.41	15
Sodium	4600	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	240-37273	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-37001	Lab File ID:	I50319A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/20/2012 0735			Final Weight/Volume:	50 mL
Prep Date:	03/16/2012 0648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Boron	200	U	34	200

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1916			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	10000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1645			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	46	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW107S(20120305)

Lab Sample ID: 240-9083-1

Date Sampled: 03/05/2012 1535

Client Matrix: Water

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	2.8		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1506						
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1506						
Fluoride-Dissolved	0.052	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1506						
Nitrate as N-Dissolved	0.68	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1506						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1506						
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1506						
Sulfate-Dissolved	17		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1506						
Bicarbonate Alkalinity as CaCO3	250		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36645	Analysis Date: 03/12/2012 1843						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36645	Analysis Date: 03/12/2012 1843						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1516						
Prep Batch: 240-36731	Prep Date: 03/14/2012 0923						
Ammonia-Dissolved	0.19 0.2	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1237						

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW107D(20120305)

Lab Sample ID: 240-9083-2

Date Sampled: 03/05/2012 1334

Client Matrix: Water

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1539						
Nitrite as N-Dissolved	0.10 R	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1539						
Fluoride-Dissolved	0.044	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1539						
Nitrate as N-Dissolved	0.15 J	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1539						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1539						
Orthophosphate-Dissolved	0.89	UBJ H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1539						
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1539						
Bicarbonate Alkalinity as CaCO3	190		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36645	Analysis Date: 03/12/2012 1852						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36645	Analysis Date: 03/12/2012 1852						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1516						
Prep Batch: 240-36731	Prep Date: 03/14/2012 0923						
Ammonia-Dissolved	0.092 0.2 UB JB		mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1250						

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: DUP(20120305)

Lab Sample ID: 240-9083-3FD

Client Matrix: Water

Date Sampled: 03/05/2012 0000

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	2.9		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1555					
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1555					
Fluoride-Dissolved	0.062	J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1555					
Nitrate as N-Dissolved	0.71	J	mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1555					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1555					
Orthophosphate-Dissolved	0.50	UJ	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1555					
Sulfate-Dissolved	17		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1555					
Bicarbonate Alkalinity as CaCO3	240		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-36645	Analysis Date: 03/12/2012 1902					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-36645	Analysis Date: 03/12/2012 1902					
Total Phosphorus as PO4-Dissolved	0.20	U	mg/L	0.066	0.20	1.0	SM 4500 P E
	Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1519					
	Prep Batch: 240-36731	Prep Date: 03/14/2012 0923					
Ammonia-Dissolved	0.26	UB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
	Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1256					

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW108D(20120306)

Lab Sample ID: 240-9083-4

Date Sampled: 03/06/2012 1020

Client Matrix: Water

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.0		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1612					
Nitrite as N-Dissolved	0.10 R	U H	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1612					
Fluoride-Dissolved	0.039	J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1612					
Nitrate as N-Dissolved	0.45 J	J	mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1612					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1612					
Orthophosphate-Dissolved	0.50	U H JJ	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1612					
Sulfate-Dissolved	14		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1612					
Bicarbonate Alkalinity as CaCO3	260		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1839					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1839					
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1519					
	Prep Batch: 240-36731	Prep Date: 03/14/2012 0923					
Ammonia-Dissolved	0.17 0.2 UB JB	J B	mg/L	0.035	0.20	1.0	SM4500 NH3-F
	Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1259					

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW108S(20120306)

Lab Sample ID: 240-9083-5

Date Sampled: 03/06/2012 1220

Client Matrix: Water

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.7		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1628					
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1628					
Fluoride-Dissolved	1.0	U	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1628					
Nitrate as N-Dissolved	0.33	J	H	mg/L	0.023	0.10	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1628					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1628					
Orthophosphate-Dissolved	0.50	UJ	U H	mg/L	0.044	0.50	9056A
	Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1628					
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1628					
Bicarbonate Alkalinity as CaCO3	330		mg/L	5.4	10	2.0	SM 2320B
	Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1848					
Carbonate Alkalinity as CaCO3	10	U	mg/L	5.4	10	2.0	SM 2320B
	Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1848					
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1519					
	Prep Batch: 240-36731	Prep Date: 03/14/2012 0923					
Ammonia-Dissolved	0.23	UB	B	mg/L	0.035	0.20	SM4500 NH3-F
	Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1303					

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW102A(20120306)

Lab Sample ID: 240-9083-6

Date Sampled: 03/06/2012 1545

Client Matrix: Water

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.1		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1701						
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1701						
Fluoride-Dissolved	0.041	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1701						
Nitrate as N-Dissolved	1.3	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1701						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1701						
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1701						
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1701						
Bicarbonate Alkalinity as CaCO3	170		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1857						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1857						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1519						
Prep Batch: 240-36731	Prep Date: 03/14/2012 0923						
Ammonia-Dissolved	0.18 0.2	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1305						

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW102B(20120306)

Lab Sample ID: 240-9083-7

Date Sampled: 03/06/2012 1735

Client Matrix: Water

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	9.4		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1750						
Nitrite as N-Dissolved	0.10	UJ HH	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1750						
Fluoride-Dissolved	0.040	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1750						
Nitrate as N-Dissolved	0.69	J H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1750						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1750						
Orthophosphate-Dissolved	0.50	UJ HH	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1750						
Sulfate-Dissolved	7.3		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1750						
Bicarbonate Alkalinity as CaCO3	260		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1909						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1909						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1519						
Prep Batch: 240-36731	Prep Date: 03/14/2012 0923						
Ammonia-Dissolved	-0.17 0.2	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1308						

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW105(20120307)

Lab Sample ID: 240-9083-8

Client Matrix: Water

Date Sampled: 03/07/2012 1005

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.9		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1807						
Nitrite as N-Dissolved	0.10	UJ UJH	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1807						
Fluoride-Dissolved	1.0	U	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1807						
Nitrate as N-Dissolved	2.0	J H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1807						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1807						
Orthophosphate-Dissolved	0.50	UJ UJH	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1807						
Sulfate-Dissolved	8.4		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1807						
Bicarbonate Alkalinity as CaCO3	320		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1920						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1920						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1522						
Prep Batch: 240-36731	Prep Date: 03/14/2012 0923						
Ammonia-Dissolved	-0.16 0.2	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1311						

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW101(20120307)

Lab Sample ID: 240-9083-9

Client Matrix: Water

Date Sampled: 03/07/2012 1350

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.6		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1839						
Nitrite as N-Dissolved	0.10	UJ UH	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1839						
Fluoride-Dissolved	0.028	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1839						
Nitrate as N-Dissolved	0.83	J H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1839						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1839						
Orthophosphate-Dissolved	0.50	UJ UH	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1839						
Sulfate-Dissolved	6.7		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1839						
Bicarbonate Alkalinity as CaCO3	280		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1935						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1935						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36829	Analysis Date: 03/14/2012 1522						
Prep Batch: 240-36731	Prep Date: 03/14/2012 0923						
Ammonia-Dissolved	0.12 0.2	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1312						

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: EB-01(20120308)

Lab Sample ID: 240-9083-10

Date Sampled: 03/08/2012 1245

Client Matrix: Water

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	0.26	J	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36352	Analysis Date: 03/09/2012 1754						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Run Type: RA	Analysis Batch: 240-36353	Analysis Date: 03/09/2012 1754					
Fluoride-Dissolved	0.023	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36352	Analysis Date: 03/09/2012 1754						
Nitrate as N-Dissolved	0.10	U	mg/L	0.023	0.10	1.0	9056A
Run Type: RA	Analysis Batch: 240-36353	Analysis Date: 03/09/2012 1754					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36352	Analysis Date: 03/09/2012 1754						
Orthophosphate-Dissolved	0.64	U	mg/L	0.044	0.50	1.0	9056A
Run Type: RA	Analysis Batch: 240-36353	Analysis Date: 03/09/2012 1754					
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36494	Analysis Date: 03/12/2012 1623						
Sulfate-Dissolved	1.0	U	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36352	Analysis Date: 03/09/2012 1754						
Bicarbonate Alkalinity as CaCO3	3.1	J	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1941						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1941						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36980	Analysis Date: 03/15/2012 1507						
Prep Batch: 240-36874	Prep Date: 03/15/2012 0852						
Ammonia-Dissolved	0.12	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1314						

Analytical Data

Client: TRW Automotive

Job Number: 240-9083-1

General Chemistry

Client Sample ID: MW103(20120308)

Lab Sample ID: 240-9083-11

Client Matrix: Water

Date Sampled: 03/08/2012 1450

Date Received: 03/09/2012 1010

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	13		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36352	Analysis Date: 03/09/2012 1810						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Run Type: RA	Analysis Batch: 240-36353	Analysis Date: 03/09/2012 1810					
Fluoride-Dissolved	0.063	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36352	Analysis Date: 03/09/2012 1810						
Nitrate as N-Dissolved	1.9		mg/L	0.023	0.10	1.0	9056A
Run Type: RA	Analysis Batch: 240-36353	Analysis Date: 03/09/2012 1810					
Bromide-Dissolved	0.16	J	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36352	Analysis Date: 03/09/2012 1810						
Orthophosphate-Dissolved	0.28	UB	mg/L	0.044	0.50	1.0	9056A
Run Type: RA	Analysis Batch: 240-36353	Analysis Date: 03/09/2012 1810					
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36494	Analysis Date: 03/12/2012 1940						
Sulfate-Dissolved	0.69	J	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36352	Analysis Date: 03/09/2012 1810						
Bicarbonate Alkalinity as CaCO3	190		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1950						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1950						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36980	Analysis Date: 03/15/2012 1456						
Prep Batch: 240-36874	Prep Date: 03/15/2012 0852						
Ammonia-Dissolved	0.12 0.2	UB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-36654	Analysis Date: 03/13/2012 1339						

THE LEADER IN ENVIRONMENTAL TESTING

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ OtherTAL 0018- 1 (04/10)

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: MW-104(20120309)

Lab Sample ID: 240-9136-1

Date Sampled: 03/09/2012 0925

Client Matrix: Water

Date Received: 03/10/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-37026

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC1928.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/16/2012 1748

Final Weight/Volume: 5 mL

Prep Date: 03/16/2012 1748

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.32	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.35	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.2		0.31	1.0
1,1-Dichloroethane	0.78	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.60	J	0.29	1.0
Toluene	0.15	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: MW-104(20120309)

Lab Sample ID: 240-9136-1

Date Sampled: 03/09/2012 0925

Client Matrix: Water

Date Received: 03/10/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37026	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC1928.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/16/2012 1748			Final Weight/Volume:	5 mL
Prep Date:	03/16/2012 1748				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.22	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.5		0.17	1.0
Trichlorofluoromethane	34		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	85		75 - 121
1,2-Dichloroethane-d4 (Surr)	101		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: MW-104(20120309)

Lab Sample ID: 240-9136-1

Date Sampled: 03/09/2012 0925

Client Matrix: Water

Date Received: 03/10/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37167	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC1942.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/19/2012 1329			Final Weight/Volume:	5 mL
Prep Date:	03/19/2012 1329				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	51 D		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	89		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: VOSS(20120309)

Lab Sample ID: 240-9136-2

Date Sampled: 03/09/2012 1150

Client Matrix: Water

Date Received: 03/10/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-37026

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC1929.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/16/2012 1810

Final Weight/Volume: 5 mL

Prep Date: 03/16/2012 1810

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.32	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.1		0.31	1.0
1,1-Dichloroethane	2.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.27	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.76	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: VOSS(20120309)

Lab Sample ID: 240-9136-2

Date Sampled: 03/09/2012 1150

Client Matrix: Water

Date Received: 03/10/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37026	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC1929.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/16/2012 1810			Final Weight/Volume:	5 mL
Prep Date:	03/16/2012 1810				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.29	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.8		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	88		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: VOSS(20120309)

Lab Sample ID: 240-9136-2

Date Sampled: 03/09/2012 1150

Client Matrix: Water

Date Received: 03/10/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37167	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC1943.D
Dilution:	2.5			Initial Weight/Volume:	5 mL
Analysis Date:	03/19/2012 1351			Final Weight/Volume:	5 mL
Prep Date:	03/19/2012 1351				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	68 D		1.1	5.0
Trichlorofluoromethane	40 D		0.53	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: TB-02(20120309)

Lab Sample ID: 240-9136-3TB

Client Matrix: Water

Date Sampled: 03/09/2012 0000

Date Received: 03/10/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-37026

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC1930.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/16/2012 1832

Final Weight/Volume: 5 mL

Prep Date: 03/16/2012 1832

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: TB-02(20120309)

Lab Sample ID: 240-9136-3TB

Date Sampled: 03/09/2012 0000

Client Matrix: Water

Date Received: 03/10/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37026	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC1930.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/16/2012 1832			Final Weight/Volume:	5 mL
Prep Date:	03/16/2012 1832				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		66 - 117
Dibromofluoromethane (Surr)	89		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: MW-104(20120309)

Lab Sample ID: 240-9136-1

Date Sampled: 03/09/2012 0925

Client Matrix: Water

Date Received: 03/10/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37273	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-37001	Lab File ID:	I50319A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/19/2012 1706			Final Weight/Volume:	50 mL
Prep Date:	03/16/2012 0648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	86	J B	0.67	200
Boron	200	U	34	200
Calcium	76000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2000	J B	72	5000
Magnesium	43000	B	34	5000
Manganese	0.65 1.5 UB	J-B	0.41	15
Sodium	8200		590	5000
Nickel	40	U	3.2	40
Zinc	35	B	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1921			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	12000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1649			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	64	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

Client Sample ID: VOSS(20120309)

Lab Sample ID: 240-9136-2

Date Sampled: 03/09/2012 1150

Client Matrix: Water

Date Received: 03/10/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37273	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-37001	Lab File ID:	I50319A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/19/2012 1712			Final Weight/Volume:	50 mL
Prep Date:	03/16/2012 0648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180	J B	0.67	200
Boron	200	U	34	200
Calcium	51000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1500	J B	72	5000
Magnesium	29000	B	34	5000
Manganese	0.74 15 UB	J-B	0.41	15
Sodium	4900	J	590	5000
Nickel	40	U	3.2	40
Zinc	7.3 20 UB	J-B	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-31781	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30593	Lab File ID:	Q20327B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2012 1926			Final Weight/Volume:	50 mL
Prep Date:	03/13/2012 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	11000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31887	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-30667	Lab File ID:	X20328A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2012 1653			Final Weight/Volume:	50 mL
Prep Date:	03/14/2012 1019				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	49	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

General Chemistry**Client Sample ID: MW-104(20120309)**

Lab Sample ID: 240-9136-1

Date Sampled: 03/09/2012 0925

Client Matrix: Water

Date Received: 03/10/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	22		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36414				Analysis Date: 03/10/2012 1856			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36415				Analysis Date: 03/10/2012 1856			
Fluoride-Dissolved	0.024	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36414				Analysis Date: 03/10/2012 1856			
Nitrate as N-Dissolved	0.85		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36415				Analysis Date: 03/10/2012 1856			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36414				Analysis Date: 03/10/2012 1856			
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36415				Analysis Date: 03/10/2012 1856			
Sulfate-Dissolved	5.6		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36414				Analysis Date: 03/10/2012 1856			
Bicarbonate Alkalinity as CaCO3	350		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734				Analysis Date: 03/13/2012 1727			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734				Analysis Date: 03/13/2012 1727			
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36657				Analysis Date: 03/13/2012 1335			
Prep Batch: 240-36580				Prep Date: 03/13/2012 0830			
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-36778				Analysis Date: 03/14/2012 0916			

Analytical Data

Client: TRW Automotive

Job Number: 240-9136-1

General Chemistry**Client Sample ID:** VOSS(20120309)

Lab Sample ID: 240-9136-2

Date Sampled: 03/09/2012 1150

Client Matrix: Water

Date Received: 03/10/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.1		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1912						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1912						
Fluoride-Dissolved	0.033	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1912						
Nitrate as N-Dissolved	0.97		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1912						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1912						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36415	Analysis Date: 03/10/2012 1912						
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36414	Analysis Date: 03/10/2012 1912						
Bicarbonate Alkalinity as CaCO3	230		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1818						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-36734	Analysis Date: 03/13/2012 1818						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36657	Analysis Date: 03/13/2012 1335						
Prep Batch: 240-36580	Prep Date: 03/13/2012 0830						
Ammonia-Dissolved	0.038	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-36927	Analysis Date: 03/15/2012 1019						

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Analytical Data

Client: TRW Automotive

Job Number: 240-9209-1

Client Sample ID: MW-1 (20120313)

Lab Sample ID: 240-9209-1

Date Sampled: 03/13/2012 1235

Client Matrix: Water

Date Received: 03/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-37167

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC1958.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/19/2012 1929

Final Weight/Volume: 5 mL

Prep Date: 03/19/2012 1929

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.28	J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.24	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9209-1

Client Sample ID: MW-1 (20120313)

Lab Sample ID: 240-9209-1

Date Sampled: 03/13/2012 1235

Client Matrix: Water

Date Received: 03/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37167	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC1958.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/19/2012 1929			Final Weight/Volume:	5 mL
Prep Date:	03/19/2012 1929				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	106		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9209-1

Client Sample ID: TB-03 (20120313)

Lab Sample ID: 240-9209-2TB

Client Matrix: Water

Date Sampled: 03/13/2012 0000

Date Received: 03/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37167	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC1959.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/19/2012 1951			Final Weight/Volume:	5 mL
Prep Date:	03/19/2012 1951				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9209-1

Client Sample ID: TB-03 (20120313)

Lab Sample ID: 240-9209-2TB

Date Sampled: 03/13/2012 0000

Client Matrix: Water

Date Received: 03/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37167	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC1959.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/19/2012 1951			Final Weight/Volume:	5 mL
Prep Date:	03/19/2012 1951				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	90		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9209-1

Client Sample ID: MW-1 (20120313)

Lab Sample ID: 240-9209-1

Date Sampled: 03/13/2012 1235

Client Matrix: Water

Date Received: 03/14/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	180-31124	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-30894	Lab File ID:	Q20319B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/19/2012 1614			Final Weight/Volume:	50 mL
Prep Date:	03/16/2012 1011				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	8900		29	1100
Lithium	50	U	2.8	50

Analysis Method:	6010B	Analysis Batch:	240-37273	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-37001	Lab File ID:	I50319A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/19/2012 1751			Final Weight/Volume:	50 mL
Prep Date:	03/16/2012 0648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	300	B	0.67	200
Boron	200	U	34	200
Calcium	35000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	730 5000 UB	J-B	72	5000
Magnesium	21000	B	34	5000
Manganese	15	U	0.41	15
Sodium	2200	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31553	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-31032	Lab File ID:	M20323A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2012 1946			Final Weight/Volume:	50 mL
Prep Date:	03/19/2012 1122				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	42	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9209-1

General Chemistry

Client Sample ID: MW-1 (20120313)

Lab Sample ID: 240-9209-1

Client Matrix: Water

Date Sampled: 03/13/2012 1235

Date Received: 03/14/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.7	B	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36712	Analysis Date: 03/14/2012 1604						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36823	Analysis Date: 03/14/2012 1604						
Fluoride-Dissolved	0.056	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-36712	Analysis Date: 03/14/2012 1604						
Nitrate as N-Dissolved	0.64		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36823	Analysis Date: 03/14/2012 1604						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36712	Analysis Date: 03/14/2012 1604						
Orthophosphate-Dissolved	0.19	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36854	Analysis Date: 03/15/2012 0951						
Sulfate-Dissolved	7.1		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36712	Analysis Date: 03/14/2012 1604						
Bicarbonate Alkalinity as CaCO3	180		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-37564	Analysis Date: 03/20/2012 1743						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-37564	Analysis Date: 03/20/2012 1743						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-36980	Analysis Date: 03/15/2012 1456						
Prep Batch: 240-36874	Prep Date: 03/15/2012 0852						
Ammonia-Dissolved	0.073	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-36927	Analysis Date: 03/15/2012 1037						

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Analytical Data

Client: TRW Automotive

Job Number: 240-9246-1

Client Sample ID: MW-1A(20120314)

Lab Sample ID: 240-9246-1

Date Sampled: 03/14/2012 1415

Client Matrix: Water

Date Received: 03/15/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-37688

Instrument ID: A3UX16

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXM4046.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/22/2012 1641

Final Weight/Volume: 5 mL

Prep Date: 03/22/2012 1641

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.47	J	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	17		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	2.9		0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9246-1

Client Sample ID: MW-1A(20120314)

Lab Sample ID: 240-9246-1

Date Sampled: 03/14/2012 1415

Client Matrix: Water

Date Received: 03/15/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37688	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM4046.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/22/2012 1641			Final Weight/Volume:	5 mL
Prep Date:	03/22/2012 1641				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.73	J	0.17	1.0
Trichlorofluoromethane	4.5		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		66 - 117
Dibromofluoromethane (Surr)	98		75 - 121
1,2-Dichloroethane-d4 (Surr)	99		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9246-1

Client Sample ID: TB-04(20120314)

Lab Sample ID: 240-9246-2TB

Date Sampled: 03/14/2012 0000

Client Matrix: Water

Date Received: 03/15/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-37688

Instrument ID: A3UX16

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXM4047.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 03/22/2012 1703

Final Weight/Volume: 5 mL

Prep Date: 03/22/2012 1703

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-9246-1

Client Sample ID: TB-04(20120314)

Lab Sample ID: 240-9246-2TB

Date Sampled: 03/14/2012 0000

Client Matrix: Water

Date Received: 03/15/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-37688	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM4047.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/22/2012 1703			Final Weight/Volume:	5 mL
Prep Date:	03/22/2012 1703				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	91		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	89		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-9246-1

Client Sample ID: MW-1A(20120314)

Lab Sample ID: 240-9246-1

Date Sampled: 03/14/2012 1415

Client Matrix: Water

Date Received: 03/15/2012 0920

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-37273	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-37001	Lab File ID:	I50319A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/19/2012 1854			Final Weight/Volume:	50 mL
Prep Date:	03/16/2012 0648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	140	J B	0.67	200
Calcium	62000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2700	J B	72	5000
Magnesium	33000	B	34	5000
Manganese	1.0 15 UB	J B	0.41	15
Sodium	6500		590	5000
Nickel	40	U	3.2	40
Zinc	12 20 UB	J B	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	240-37273	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-37001	Lab File ID:	I50319A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/20/2012 0730			Final Weight/Volume:	50 mL
Prep Date:	03/16/2012 0648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Boron	200	U	34	200

Analysis Method:	6010B	Analysis Batch:	180-32148	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-32010	Lab File ID:	Q20402A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	04/02/2012 1348			Final Weight/Volume:	50 mL
Prep Date:	03/30/2012 1233				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	32000		29	1100
Lithium	13	J	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-31553	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-31032	Lab File ID:	M20323A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2012 1951			Final Weight/Volume:	50 mL
Prep Date:	03/19/2012 1122				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	110	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-9246-1

General Chemistry**Client Sample ID:** MW-1A(20120314)

Lab Sample ID: 240-9246-1

Date Sampled: 03/14/2012 1415

Client Matrix: Water

Date Received: 03/15/2012 0920

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.6		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-36853	Analysis Date: 03/15/2012 1506						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-36854	Analysis Date: 03/15/2012 1506						
Fluoride-Dissolved	0.056	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-37021	Analysis Date: 03/16/2012 1014						
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-36854	Analysis Date: 03/15/2012 1506						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-36853	Analysis Date: 03/15/2012 1506						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-36854	Analysis Date: 03/15/2012 1506						
Sulfate-Dissolved	6.8		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-36853	Analysis Date: 03/15/2012 1506						
Bicarbonate Alkalinity as CaCO3	290		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-37564	Analysis Date: 03/20/2012 1900						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-37564	Analysis Date: 03/20/2012 1900						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-37698	Analysis Date: 03/22/2012 1216						
Prep Batch: 240-37601	Prep Date: 03/22/2012 0740						
Ammonia-Dissolved	0.17	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-37207	Analysis Date: 03/19/2012 0818						

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile Organic Compounds (VOCs), Metals, and
Miscellaneous Analyses.

SDG #s 240-14977 and 240-15077

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19038R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) 240-14977 and 240-15077 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
240-14977	MW-108D (09102012)	240-14977-1	Water	9/10/2012		X			X	X
	TRIP BLANK	240-14977-2	Water	9/10/2012		X				
240-15077	MW-103 (09102012)	240-15077-1	Water	9/10/2012		X			X	X
	MW-108S (09112012)	240-15077-2	Water	9/11/2012		X			X	X
	MW-107S (09112012)	240-15077-3	Water	9/11/2012		X			X	X
	MW-107D (09112012)	240-15077-4	Water	9/11/2012		X			X	X
	TRIP BLANK_9/11/2012	240-15077-5	Water	9/11/2012		X				
	MW-102B (09112012)	240-15077-6	Water	9/11/2012		X			X	X
	MW-102A (09112012)	240-15077-7	Water	9/11/2012		X			X	X
	MW-1 (09122012)	240-15077-8	Water	9/12/2012		X			X	X
	TRIP BLANK_9/11/2012	240-15077-9	Water	9/11/2012		X				

Note: Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Target compounds were detected in the associated QA blanks; however, the associated sample results were non-detect. Therefore, qualification of the sample results was not required.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample location MW-103(09102012) was used in the MS/MSD analysis. All compounds associated with the MS/MSD analyses exhibited acceptable recoveries and RPDs between the MS and MSD results.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The spiked compounds used in the LCS analysis must exhibit recoveries within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the reporting limit (RL), a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Field duplicate samples were not collected as part of this dataset.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks					X
C. Trip blanks		X	X		
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate (MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 6020, 2320B, 9056, SM4500 NH₃, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.

- N Spiked sample recovery is not within control limits.

- * Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

- UB Analyte considered non-detect at the listed value due to associated blank contamination.

- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010, 6020	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Location	Analyte	Sample Result	Qualification
MW-108D(09102012)	Manganese	Detected sample results <RL and <BAL	"UB" at the RL

RL = reporting limit

3. Matrix Spike (MS)/Laboratory Duplicate Sample Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

All metal analytes must exhibit recoveries within the established acceptance limits of 75% to 125%. The relative percent difference (RPD) between the MS and MSD results must be no greater than the established acceptance limit of 20%. The MS/MSD control limits do not apply for MS/MSDs performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD spiking concentration by a factor of four or greater. In instance where this is true, the data will not be qualified and the laboratory qualifier "N" will be removed. Sample results associated with MS/MSD

exceedances where the parent samples are not site-specific are not qualified.

Sample location MW-103(09102012) was used in the MS/MSD analyses. All analytes associated with the MS/MSD analyses exhibited acceptable recoveries and RPDs between the MS and MSD results.

3.2 Laboratory Duplicate Sample Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to five times the reporting limit (RL). A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of one times the RL is applied for water matrices and two times the RL for soil matrices.

MS/MSD analysis was performed in lieu of the laboratory duplicate sample analysis. The MS/MSD exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Field duplicate samples were not collected as part of this dataset.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analyses exhibited recoveries within the control limits.

6. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution analysis was not performed on a sample location from within these SDGs.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010, 6020	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks					X	
B. Method Blanks		X	X			
C. Equipment/Field Blanks					X	
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Laboratory Duplicate (RPD)					X	
Field Duplicate (RPD)					X	
ICP Serial Dilution					X	
Reporting Limit Verification		X		X		
Moisture Content					X	

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Ammonia-N by SM4500 NH ₃	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C±2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

The analyses that exceeded the holding time are presented in the following table.

Sample Location	Analyte	Analysis Completed	HT Criteria
MW-103(09102012)	Nitrate-N Nitrite-N ortho-Phosphate	68 Hours	48 Hours
MW-108S(09112012)	Nitrate-N Nitrite-N ortho-Phosphate	52 Hours	48 Hours
MW-107S(09112012)	Nitrate-N Nitrite-N ortho-Phosphate	49 Hours	48 Hours

Sample results were qualified as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed < 2x holding time	J	UJ

Note: Due to the ready conversion of nitrite into nitrate, nitrate results for samples analyzed greater than 48 hours after collection should be considered as nitrate+nitrite. Similarly, ortho-phosphate readily converts to a more stable form and may only be detected as total phosphorus after 48 hours. The total phosphorus results for the sample locations listed above were non-detect; therefore the ortho-phosphate results do not require qualification.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Target analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Matrix Spike (MS)/Laboratory Duplicate Sample Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

Sample locations MW-103(09102012) and MW-102B(09112012) were used in the MS/MSD analyses. All analytes associated with MS recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery
MW-102B(09112012)	ortho-Phosphate	150 %

The criteria used to evaluate MS recoveries are presented in the following table. In the case of an MS deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS percent recovery < 30%	Non-detect	R
	Detect	J
MS percent recovery > 125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Sample Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to five times the reporting limit (RL). A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of one times the RL is applied for water matrices and two times the RL for soil matrices.

All analytes associated with the laboratory duplicate sample results exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Field duplicate samples were not collected as part of this dataset.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

All analytes associated with the LCS analyses exhibited recoveries within the control limits.

6. System Performance and Overall Assessment


Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 2320B, 9056, SM4500 NH3, and SM4500 P-E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R					X
MS/MSD Precision (RPD)					X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)					X
Dilution Factor		X		X	
Moisture Content					X

%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference,
 %D – difference

VALIDATION PERFORMED BY: Dennis Dyke

SIGNATURE: 

DATE: April 15, 2013

PEER REVIEW: Dennis Capria

DATE: April 16, 2013

**CHAIN OF CUSTODY /
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

TestAmerica

TestAmerica Laboratory location:

Regulatory program:

 DW☐ NPDES☐ RCRA☐ OtherPage 37 of 39

Analytical Data

Client: TRW Automotive

Job Number: 240-14977-1

Client Sample ID: MW-108D(09102012)

Lab Sample ID: 240-14977-1

Date Sampled: 09/10/2012 1320

Client Matrix: Water

Date Received: 09/11/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58319	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR1493.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/19/2012 1544			Final Weight/Volume:	5 mL
Prep Date:	09/19/2012 1544				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.38	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.7		0.31	1.0
1,1-Dichloroethane	0.92	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.61	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-14977-1

Client Sample ID: MW-108D(09102012)

Lab Sample ID: 240-14977-1

Date Sampled: 09/10/2012 1320

Client Matrix: Water

Date Received: 09/11/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58319	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR1493.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/19/2012 1544			Final Weight/Volume:	5 mL
Prep Date:	09/19/2012 1544				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.3		0.17	1.0
Trichlorofluoromethane	23		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	99		63 - 129
Toluene-d8 (Surr)	103		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-14977-1

Client Sample ID: MW-108D(09102012)

Lab Sample ID: 240-14977-1

Date Sampled: 09/10/2012 1320

Client Matrix: Water

Date Received: 09/11/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58647	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR1517.D
Dilution:	1.67			Initial Weight/Volume:	5 mL
Analysis Date:	09/21/2012 1234			Final Weight/Volume:	5 mL
Prep Date:	09/21/2012 1234				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	42 D		0.70	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		66 - 117
Dibromofluoromethane (Surr)	93		75 - 121
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
Toluene-d8 (Surr)	98		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-14977-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-14977-2TB

Client Matrix: Water

Date Sampled: 09/10/2012 0000

Date Received: 09/11/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58319	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR1494.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/19/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	09/19/2012 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.84	J	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-14977-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-14977-2TB

Date Sampled: 09/10/2012 0000

Client Matrix: Water

Date Received: 09/11/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58319	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR1494.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/19/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	09/19/2012 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
Toluene-d8 (Surr)	98		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-14977-1

Client Sample ID: MW-108D(09102012)

Lab Sample ID: 240-14977-1

Date Sampled: 09/10/2012 1320

Client Matrix: Water

Date Received: 09/11/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-58671	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58286	Lab File ID:	i90920a.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1431			Final Weight/Volume:	50 mL
Prep Date:	09/19/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lithium	50	U	1.8	50
SiO2, Silica	10000	B	14	1100

Analysis Method:	6010B	Analysis Batch:	240-58517	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-58286	Lab File ID:	I60920A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 2111			Final Weight/Volume:	50 mL
Prep Date:	09/19/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	170	J B	0.67	200
Boron	200	U	34	200
Calcium	47000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	140		81	100
Potassium	1200	J	72	5000
Magnesium	28000		34	5000
Manganese	15 1.6	J B UB	0.41	15
Sodium	3700	J	590	5000
Nickel	40	U	3.2	40
Zinc	13	J	5.0	20
Lead	3.0	U	1.9	3.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-58774	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-58286	Lab File ID:	I8092012A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2012 1312			Final Weight/Volume:	50 mL
Prep Date:	09/19/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	48		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-14977-1

General Chemistry

Client Sample ID: MW-108D(09102012)

Lab Sample ID: 240-14977-1

Date Sampled: 09/10/2012 1320

Client Matrix: Water

Date Received: 09/11/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.6		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57485	Analysis Date: 09/11/2012 1751						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57486	Analysis Date: 09/11/2012 1751						
Fluoride-Dissolved	0.043	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57485	Analysis Date: 09/11/2012 1751						
Nitrate as N-Dissolved	0.33		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57486	Analysis Date: 09/11/2012 1751						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57485	Analysis Date: 09/11/2012 1751						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57486	Analysis Date: 09/11/2012 1751						
Sulfate-Dissolved	14		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57485	Analysis Date: 09/11/2012 1751						
Bicarbonate Alkalinity as CaCO3	210		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-57671	Analysis Date: 09/12/2012 1958						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-57671	Analysis Date: 09/12/2012 1958						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-58888	Analysis Date: 09/24/2012 1438						
Prep Batch: 240-58842	Prep Date: 09/24/2012 1010						
Ammonia-Dissolved	0.035	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-58576	Analysis Date: 09/20/2012 1332						

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Regulatory program:

 DW

☐ NPDES☐ RCRA☐ Other

TestAmerica Laboratories, Inc.

Client Contact				Company Name:			
Address:				City/State/Zip:			
Phone:				Project Name:			
Project Number:				PO#			
ARCADIS 8725 Rosehill Rd Ste 350 Lenexa, KS 66215 913-492-0900				Client Project Manager: John Shenfett Telephone: 913-492-0900 Email: john.shenfett@arcadisus.com			
Method of Shipment/Carrier: FedEx				Shipping/Tracking No.: 8672 3646 6768			
TAT if different from below STD				Analysis Turnaround Time (in business days)			
				Analyses			
Sample Identification				Sample Date Sample Time			
Air Aqueous Sediment Solid Other:				H2SO4 HNO3 HCl NaOH ZnAc/NaOH Unpres Other:			
MW-103(09102012)				9-10-12 1710			
MW-1085(09112012)				9-11-12 0835			
MW-1075(09112012)				9-11-12 1035			
MW-107D(09112012)				9-11-12 1240			
Trip Blank				9-11-12 —			
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements & Comments:							
Relinquished by: Ben Doran				Company: ARCADIS Date/Time: 9-11-12 / 1330			
Relinquished by:				Company: Date/Time:			
Relinquished by:				Company: Date/Time:			

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10/04/2012

North Canton, OH

Regulatory program:

☐ Other

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

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TAL 0018- 1 (04/10)

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-103(09102012)

Lab Sample ID: 240-15077-1

Date Sampled: 09/10/2012 1710

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9046.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0835			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0835				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	6.2		0.31	1.0
1,1-Dichloroethane	1.6		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.38	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.8		0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-103(09102012)

Lab Sample ID: 240-15077-1

Date Sampled: 09/10/2012 1710

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9046.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0835			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0835				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.94	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	99		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-103(09102012)

Lab Sample ID: 240-15077-1

Date Sampled: 09/10/2012 1710

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9033.D
Dilution:	6.667			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0259			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0259				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	150 D		2.8	13
Trichlorofluoromethane	160 D		1.4	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		66 - 117
Dibromofluoromethane (Surr)	108		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-108S(09112012)

Lab Sample ID: 240-15077-2

Date Sampled: 09/11/2012 0835

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9034.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0321			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0321				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.78	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.5		0.31	1.0
1,1-Dichloroethane	2.1		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.98	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-108S(09112012)

Lab Sample ID: 240-15077-2

Date Sampled: 09/11/2012 0835

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-58053	Instrument ID: A3UX10
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXX9034.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 09/18/2012 0321		Final Weight/Volume: 5 mL
Prep Date: 09/18/2012 0321		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.2		0.17	1.0
Trichlorofluoromethane	31		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	90		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-108S(09112012)

Lab Sample ID: 240-15077-2

Date Sampled: 09/11/2012 0835

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9045.D
Dilution:	3.333			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0813			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0813				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	74 D		1.4	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
Toluene-d8 (Surr)	90		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-107S(09112012)

Lab Sample ID: 240-15077-3

Date Sampled: 09/11/2012 1035

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-58188

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX9071.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 09/18/2012 1849

Final Weight/Volume: 5 mL

Prep Date: 09/18/2012 1849

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.4		0.31	1.0
1,1-Dichloroethane	0.37	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	38		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.50	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-107S(09112012)

Lab Sample ID: 240-15077-3

Date Sampled: 09/11/2012 1035

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58188	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9071.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 1849			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 1849				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.5		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-107S(09112012)

Lab Sample ID: 240-15077-3

Date Sampled: 09/11/2012 1035

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58188	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9055.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 1306			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 1306				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichlorofluoromethane	36 D		0.42	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
Toluene-d8 (Surr)	90		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-107D(09112012)

Lab Sample ID: 240-15077-4

Date Sampled: 09/11/2012 1240

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9035.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0342			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.4		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-107D(09112012)

Lab Sample ID: 240-15077-4

Date Sampled: 09/11/2012 1240

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9035.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0342			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	3.7		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	106		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-15077-5TB

Client Matrix: Water

Date Sampled: 09/11/2012 0000

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9036.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0403			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0403				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.2		0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-15077-5TB

Date Sampled: 09/11/2012 0000

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58053	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9036.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 0403			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 0403				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		66 - 117
Dibromofluoromethane (Surr)	105		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	89		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-102B(09112012)

Lab Sample ID: 240-15077-6

Date Sampled: 09/11/2012 1510

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58188	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9070.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 1828			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 1828				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.97	J	0.31	1.0
1,1-Dichloroethane	0.95	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	19		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.35	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-102B(09112012)

Lab Sample ID: 240-15077-6

Date Sampled: 09/11/2012 1510

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58188	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX9070.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2012 1828			Final Weight/Volume:	5 mL
Prep Date:	09/18/2012 1828				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.50	J	0.17	1.0
Trichlorofluoromethane	7.8		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	93		75 - 121
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
Toluene-d8 (Surr)	90		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-102A(09112012)

Lab Sample ID: 240-15077-7

Date Sampled: 09/11/2012 1740

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58472	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ6992.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1641			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1641				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	0.15	J	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.1		0.31	1.0
1,1-Dichloroethane	1.4		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	17		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-102A(09112012)

Lab Sample ID: 240-15077-7

Date Sampled: 09/11/2012 1740

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58472	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ6992.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1641			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1641				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.84	J	0.17	1.0
Trichlorofluoromethane	7.3		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	91		75 - 121
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-1(09122012)

Lab Sample ID: 240-15077-8

Date Sampled: 09/12/2012 1325

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58472	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ6993.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1704			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1704				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-1(09122012)

Lab Sample ID: 240-15077-8

Date Sampled: 09/12/2012 1325

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58472	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ6993.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1704			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1704				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-15077-9TB

Client Matrix: Water

Date Sampled: 09/12/2012 0000

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-58472

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ6994.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 09/20/2012 1727

Final Weight/Volume: 5 mL

Prep Date: 09/20/2012 1727

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.56	J	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-15077-9TB

Date Sampled: 09/12/2012 0000

Client Matrix: Water

Date Received: 09/13/2012 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-58472	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ6994.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1727			Final Weight/Volume:	5 mL
Prep Date:	09/20/2012 1727				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	90		75 - 121
1,2-Dichloroethane-d4 (Surr)	85		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-103(09102012)

Lab Sample ID: 240-15077-1

Date Sampled: 09/10/2012 1710

Client Matrix: Water

Date Received: 09/13/2012 0940

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-59761	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I91001A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2012 1340			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	77	J	0.67	200
Boron	200	U	34	200
Chromium	47		2.2	5.0
Iron	2700		81	100
Potassium	1500	J	72	5000
Magnesium	32000		34	5000
Manganese	52		0.41	15
Sodium	5000		590	5000
Nickel	57		3.2	40
Zinc	17	J	5.0	20
Lead	6.0		1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	21000		14	1100

Analysis Method:	6010B	Analysis Batch:	240-59943	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I51002A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2012 1203			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	50000	B	130	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-58908	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I8092412A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1824			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	50		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-108S(09112012)

Lab Sample ID: 240-15077-2

Date Sampled: 09/11/2012 0835

Client Matrix: Water

Date Received: 09/13/2012 0940

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-59761	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I91001A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2012 1356			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	170	J	0.67	200
Boron	200	U	34	200
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2300	J	72	5000
Magnesium	43000		34	5000
Manganese	8.9	J	0.41	15
Sodium	7700		590	5000
Nickel	4.5	J	3.2	40
Zinc	130		5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	14000		14	1100

Analysis Method:	6010B	Analysis Batch:	240-59943	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I51002A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2012 1226			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	71000	<u>B</u>	130	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-58908	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I8092412A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1932			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	93		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-107S(09112012)

Lab Sample ID: 240-15077-3

Date Sampled: 09/11/2012 1035

Client Matrix: Water

Date Received: 09/13/2012 0940

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-59761	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I91001A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2012 1400			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	47	J	0.67	200
Boron	200	U	34	200
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J	72	5000
Magnesium	33000		34	5000
Manganese	2.6	J	0.41	15
Sodium	3300	J	590	5000
Nickel	4.0	J	3.2	40
Zinc	350		5.0	20
Lead	2.6	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

Analysis Method:	6010B	Analysis Batch:	240-59943	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I51002A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2012 1231			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	52000	B	130	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-58908	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I8092412A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1939			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	48		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-107D(09112012)

Lab Sample ID: 240-15077-4

Date Sampled: 09/11/2012 1240

Client Matrix: Water

Date Received: 09/13/2012 0940

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-59761	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I91001A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2012 1404			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	J	0.67	200
Boron	200	U	34	200
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1400	J	72	5000
Magnesium	27000		34	5000
Manganese	1.0	J	0.41	15
Sodium	3600	J	590	5000
Nickel	40	U	3.2	40
Zinc	220		5.0	20
Lead	2.0	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9800		14	1100

Analysis Method:	6010B	Analysis Batch:	240-59943	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I51002A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2012 1237			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	38000	B	130	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-58908	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I8092412A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1945			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	42		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-102B(09112012)

Lab Sample ID: 240-15077-6

Date Sampled: 09/11/2012 1510

Client Matrix: Water

Date Received: 09/13/2012 0940

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-59761	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I91001A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2012 1408			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	80	J	0.67	200
Boron	200	U	34	200
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3000	J	72	5000
Magnesium	37000		34	5000
Manganese	2.7	J	0.41	15
Sodium	9500		590	5000
Nickel	40	U	3.2	40
Zinc	8.3	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	15000		14	1100

Analysis Method:	6010B	Analysis Batch:	240-59943	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I51002A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2012 1254			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	58000	B	130	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-58908	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I8092412A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1950			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	69		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-102A(09112012)

Lab Sample ID: 240-15077-7

Date Sampled: 09/11/2012 1740

Client Matrix: Water

Date Received: 09/13/2012 0940

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-59761	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I91001A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2012 1420			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	44	J	0.67	200
Boron	200	U	34	200
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J	72	5000
Magnesium	24000		34	5000
Manganese	3.2	J	0.41	15
Sodium	2700	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

Analysis Method:	6010B	Analysis Batch:	240-59943	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I51002A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2012 1300			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	38000	B	130	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-58908	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I8092412A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1956			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	40		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

Client Sample ID: MW-1(09122012)

Lab Sample ID: 240-15077-8

Date Sampled: 09/12/2012 1325

Client Matrix: Water

Date Received: 09/13/2012 0940

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-59761	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I91001A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2012 1423			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	330		0.67	200
Boron	200	U	34	200
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	790	J	72	5000
Magnesium	23000		34	5000
Manganese	0.42	J	0.41	15
Sodium	2600	J	590	5000
Nickel	40	U	3.2	40
Zinc	8.9	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

Analysis Method:	6010B	Analysis Batch:	240-59943	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I51002A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2012 1308			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	34000	B	130	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-58908	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-58447	Lab File ID:	I8092412A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 2001			Final Weight/Volume:	50 mL
Prep Date:	09/20/2012 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	39		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

General Chemistry

Client Sample ID: MW-103(09102012)

Lab Sample ID: 240-15077-1

Date Sampled: 09/10/2012 1710

Client Matrix: Water

Date Received: 09/13/2012 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	12		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57714							
Nitrite as N-Dissolved	0.10	UJ UJ	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57715							
Fluoride-Dissolved	0.066	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57714							
Nitrate as N-Dissolved	1.8	J H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57715							
Bromide-Dissolved	0.13	J	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57714							
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57715							
Sulfate-Dissolved	1.0		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57714							
Bicarbonate Alkalinity as CaCO3	200		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937							
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937							
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59371							
Prep Batch: 240-59242							
Ammonia-Dissolved	0.043	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59163							
Analysis Date: 09/26/2012 0955							

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

General Chemistry

Client Sample ID: MW-108S(09112012)

Lab Sample ID: 240-15077-2

Date Sampled: 09/11/2012 0835

Client Matrix: Water

Date Received: 09/13/2012 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	10		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57714							
Nitrite as N-Dissolved	0.10	UJ HH	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57715							
Fluoride-Dissolved	0.031	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57714							
Nitrate as N-Dissolved	0.37	J H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57715							
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57714							
Orthophosphate-Dissolved	0.50	U H J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57715							
Sulfate-Dissolved	15		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57714							
Bicarbonate Alkalinity as CaCO3	330		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937							
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937							
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59371							
Prep Batch: 240-59242							
Ammonia-Dissolved	0.052	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59163							
Analysis Date: 09/26/2012 1018							

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

General Chemistry

Client Sample ID: MW-107S(09112012)

Lab Sample ID: 240-15077-3

Date Sampled: 09/11/2012 1035

Client Matrix: Water

Date Received: 09/13/2012 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	2.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57714		Analysis Date: 09/13/2012 1147					
Nitrite as N-Dissolved	0.10	UJ HH	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57715		Analysis Date: 09/13/2012 1147					
Fluoride-Dissolved	0.074	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57714		Analysis Date: 09/13/2012 1147					
Nitrate as N-Dissolved	0.65	J HH	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57715		Analysis Date: 09/13/2012 1147					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57714		Analysis Date: 09/13/2012 1147					
Orthophosphate-Dissolved	0.50	U H J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57715		Analysis Date: 09/13/2012 1147					
Sulfate-Dissolved	13		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57714		Analysis Date: 09/13/2012 1147					
Bicarbonate Alkalinity as CaCO3	230		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937		Analysis Date: 09/24/2012 1752					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937		Analysis Date: 09/24/2012 1752					
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59371		Analysis Date: 09/27/2012 1515					
Prep Batch: 240-59242		Prep Date: 09/27/2012 0844					
Ammonia-Dissolved	0.038	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59163		Analysis Date: 09/26/2012 1020					

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

General Chemistry

Client Sample ID: MW-107D(09112012)

Lab Sample ID: 240-15077-4

Date Sampled: 09/11/2012 1240

Client Matrix: Water

Date Received: 09/13/2012 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	0.99	J	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1130						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1130						
Fluoride-Dissolved	0.063	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1130						
Nitrate as N-Dissolved	0.061	J	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1130						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1130						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1130						
Sulfate-Dissolved	15		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1130						
Bicarbonate Alkalinity as CaCO3	190		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937	Analysis Date: 09/24/2012 1802						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937	Analysis Date: 09/24/2012 1802						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59371	Analysis Date: 09/27/2012 1517						
Prep Batch: 240-59242	Prep Date: 09/27/2012 0846						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59163	Analysis Date: 09/26/2012 1029						

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

General Chemistry**Client Sample ID:** MW-102B(09112012)

Lab Sample ID: 240-15077-6

Date Sampled: 09/11/2012 1510

Client Matrix: Water

Date Received: 09/13/2012 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.2		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57714				Analysis Date: 09/13/2012 1341			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57715				Analysis Date: 09/13/2012 1341			
Fluoride-Dissolved	0.034	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57714				Analysis Date: 09/13/2012 1341			
Nitrate as N-Dissolved	0.79		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57715				Analysis Date: 09/13/2012 1341			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57714				Analysis Date: 09/13/2012 1341			
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57715				Analysis Date: 09/13/2012 1341			
Sulfate-Dissolved	7.6		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57714				Analysis Date: 09/13/2012 1341			
Bicarbonate Alkalinity as CaCO ₃	280		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937				Analysis Date: 09/24/2012 1813			
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937				Analysis Date: 09/24/2012 1813			
Total Phosphorus as PO ₄ -Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59371				Analysis Date: 09/27/2012 1517			
Prep Batch: 240-59242				Prep Date: 09/27/2012 0848			
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-59163				Analysis Date: 09/26/2012 1031			

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

General Chemistry

Client Sample ID: MW-102A(09112012)

Lab Sample ID: 240-15077-7

Date Sampled: 09/11/2012 1740

Client Matrix: Water

Date Received: 09/13/2012 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.2		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1431						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1431						
Fluoride-Dissolved	0.048	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1431						
Nitrate as N-Dissolved	1.3		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1431						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1431						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1431						
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1431						
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937	Analysis Date: 09/24/2012 1822						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937	Analysis Date: 09/24/2012 1822						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59371	Analysis Date: 09/27/2012 1517						
Prep Batch: 240-59242	Prep Date: 09/27/2012 0850						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-59163	Analysis Date: 09/26/2012 1034						

Analytical Data

Client: TRW Automotive

Job Number: 240-15077-1

General Chemistry**Client Sample ID:** MW-1(09122012)

Lab Sample ID: 240-15077-8

Date Sampled: 09/12/2012 1325

Client Matrix: Water

Date Received: 09/13/2012 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.6		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1447						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1447						
Fluoride-Dissolved	0.065	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1447						
Nitrate as N-Dissolved	0.85		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1447						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1447						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-57715	Analysis Date: 09/13/2012 1447						
Sulfate-Dissolved	5.1		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-57714	Analysis Date: 09/13/2012 1447						
Bicarbonate Alkalinity as CaCO ₃	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937	Analysis Date: 09/24/2012 1834						
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-58937	Analysis Date: 09/24/2012 1834						
Total Phosphorus as PO ₄ -Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-59371	Analysis Date: 09/27/2012 1517						
Prep Batch: 240-59242	Prep Date: 09/27/2012 0852						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-59163	Analysis Date: 09/26/2012 1055						

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile Organic Compounds (VOCs), Metals, and
Miscellaneous Analyses.

SDG #s 240-18654, 240-18762, 240-18845, and
240-18953

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19039R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) 240-18654, 240-18762, 240-18845, and 240-18953 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
240-18654	MW-105 (20121210)	240-18654-1	Water	12/10/2012		X			X	X
	MW-101 (20121210)	240-18654-3	Water	12/11/2012		X				X
	TRIP BLANK	240-18654-4	Water	12/11/2012		X				
240-18762	MW-107S (121212)	240-18762-1	Water	12/12/2012		X			X	X
	MW-107D (121212)	240-18762-2	Water	12/12/2012		X			X	X
	TRIP BLANK	240-18762-3	Water	12/12/2012		X				
	MW-108D (121212)	240-18762-4	Water	12/12/2012		X			X	X
240-18845	TRIP BLANK	240-18845-1	Water	12/13/2012		X				
	MW-1 (20121213)	240-18845-2	Water	12/13/2012		X			X	X
	MW-101 (20121213)	240-18845-3	Water	12/13/2012					X	X
	MW-103 (20121212)	240-18845-4	Water	12/12/2012		X			X	X
240-18953	MW-1A (20121213)	240-18953-1	Water	12/13/2012		X			X	X
	MW-102A (20121213)	240-18953-2	Water	12/14/2012		X			X	X
	MW-102B (20121213)	240-18953-3	Water	12/14/2012		X			X	X
	TRIP BLANK	240-18953-4	Water	12/14/2012		X				
	MW-108S (20121214)	240-18953-5	Water	12/14/2012		X			X	X
	VOSS WELL (20121213)	240-18953-6	Water	12/13/2012	VOSS WELL (20121213)	X			X	X
	DUP-01 (20121213)	240-18953-7	Water	12/13/2012		X			X	X
	EB-01 (20121213)	240-18953-8	Water	12/14/2012		X			X	X

Note: Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited concentrations less than the MDL, with the exception of the compound(s) listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Location	Analyte	Sample Result	Qualification
MW-107S(121212)	1,2,3-Trichlorobenzene	Detected sample results < RL and < BAL	"UB" at the RL
DUP-01(20121213)	Naphthalene		
	Methylene chloride		

RL Reporting limit

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample location MW-107D(121212) was used in the MS/MSD analysis. Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Location	Compound	MS Recovery	MSD Recovery
MW-107D(121212)	1,1,1-Trichloroethane	AC	< LL but > 10%

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of MS/MSD deviations, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > 4x the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The spiked compounds used in the LCS analysis must exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with LCS analyses exhibiting recoveries outside of the control limits are presented in the following table.

Sample Location	Compound	LCS Recovery
MW-107D(121212) TRIP BLANK MW-108D(121212)	1,3-Dichloropropane n-Propylbenzene 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,2,3-Trichloropropane	> UL

Sample Location	Compound	LCS Recovery
MW-1A(20121213) MW-102A(20121213) MW-102B(20121213) TRIP BLANK MW-108S(20121214) VOSS WELL(20121213) DUP-01(20121213) EB-01(20121213)	1,2,3-Trichlorobenzene	> UL

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of any LCS deviations, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results (in µg/L) for the field duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
VOSS WELL(20121213) / DUP-01(20121213)	1,1,1-Trichloroethane	0.27 J	0.28 J	AC
	1,1-Dichloroethane	2.5	2.4	4.1 %
	1,1-Dichloroethene	0.32 J	0.28 J	AC
	Dichlorodifluoromethane	4.1	5.2	23.7 %
	Dichloromonofluoromethane	77	78	1.3 %
	Tetrachloroethene	0.94 J	0.88 J	AC
	Trichloroethene	1.8	1.7	5.7 %
	Trichlorofluoromethane	39	46	16.5 %

AC Acceptable

J Estimated (result is < RL)

The field duplicate sample results are acceptable.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X	X		
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate (LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate (MSD)		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 6020, 2320B, 9056, SM4500 NH₃, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.
- N Spiked sample recovery is not within control limits.
- * Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- UB Analyte considered non-detect at the listed value due to associated blank contamination.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010, 6020	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Location	Analyte	Sample Result	Qualification
MW-107S(121212) MW-107D(121212) MW-101(20121213) MW-103(20121212) MW-1A(20121213) MW-102A(20121213) MW-102B(20121213) DUP-01(20121213)	Manganese	Detected sample results <RL and <BAL	"UB" at the RL
MW-101(20121213)	Barium Lithium		
MW-105(20121210) MW-108D(121212) MW-101(20121213)	Zinc		

RL = reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Sample Analysis

MS/MSD and laboratory duplicate sample data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit recoveries within the established acceptance limits of 75% to 125%. The relative percent difference (RPD) between the MS and MSD results must be no greater than the established acceptance limit of 20%. The MS/MSD control limits do not apply for MS/MSDs performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD spiking concentration by a factor of four or greater. In instance where this is true, the data will not be qualified and the laboratory qualifier "N" will be removed. Sample results associated with MS/MSD exceedances where the parent samples are not site-specific are not qualified.

Sample location MW-107D(121212) was used in the MS/MSD analysis. All analytes associated with the MS/MSD analyses exhibited acceptable recoveries and RPDs between the MS and MSD results.

3.2 Laboratory Duplicate Sample Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the reporting limit (RL). A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of one times the RL is applied for water matrices and two times the RL for soil matrices.

MS/MSD analysis was performed in lieu of the laboratory duplicate sample analysis. The MS/MSD exhibited acceptable RPDs.

4. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
VOSS WELL(20121213) / DUP-01(20121213)	Barium	180 J	190 J	AC
	Calcium	46000	45000	2.2 %
	Magnesium	26000	26000	0.0 %
	Potassium	1100 J	1100 J	AC
	Sio2, silica	10000	10000	0.0 %
	Sodium	3800 J	3800 J	AC
	Zinc	8.5 J	8.0 J	AC
	Strontium	44	45	2.2 %

AC Acceptable

J Estimated (result is < RL)

The field duplicate sample results are acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analyses exhibited recoveries within the control limits.

6. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution analysis was not performed on a sample location from within these SDGs.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METAL

METALS; SW-846 6010, 6020	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks					X	
B. Method Blanks		X	X			
C. Equipment/Field Blanks		X	X			
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Laboratory Duplicate (RPD)					X	
Field Duplicate (RPD)		X		X		
ICP Serial Dilution					X	
Reporting Limit Verification		X		X		
Moisture Content					X	

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Ammonia-N by SM4500 NH ₃	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C±2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

The analyses that exceeded the holding time are presented in the following table.

Sample Location	Analyte	Analysis Completed	HT Criteria
MW-103(20121212)	Nitrate-N Nitrite-N ortho-Phosphate	57 Hours	48 Hours
MW-103(20121212)	Nitrate-N Nitrite-N ortho-Phosphate	64 Hours	48 Hours

Sample results were qualified as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed < 2x holding time	J	UJ

Note: Due to the ready conversion of nitrite into nitrate, nitrate results for samples analyzed greater than 48 hours after collection should be considered as nitrate+nitrite. Similarly, ortho-phosphate readily converts to a more stable form and may only be detected as total phosphorus after 48 hours. The total phosphorus result for sample location MW-103(20121212) was non-detect; therefore the ortho-phosphate result does not require qualification.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks

containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Location	Analyte	Sample Result	Qualification
MW-105(20121210) MW-1(20121213) MW-101(20121213) MW-103(20121212) MW-1A(20121213) MW-102A(20121213) MW-102B(20121213) MW-108S(20121214) VOSS WELL(20121213) DUP-01(20121213)	Ammonia	Detected sample results <RL and <BAL	"UB" at the RL
MW-107S(121212) MW-107D(121212) MW-108D(121212) MW-1(20121213) MW-103(20121212) MW-1A(20121213) MW-102A(20121213) MW-102B(20121213) MW-108S(20121214) VOSS WELL(20121213) DUP-01(20121213)	Fluoride		

RL = reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Sample Analysis

MS/MSD and laboratory duplicate sample data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit recoveries within the established acceptance limits of 75% to 125%. The relative percent difference (RPD) between the MS and MSD results must be no greater than the established acceptance limit of 20%. The MS/MSD control limits do not apply for MS/MSDs performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD spiking concentration by a factor of four or greater. In instance where this is true, the data will not be qualified. Sample results associated with MS/MSD exceedances where the parent samples are not site-specific are not qualified.

Sample locations MW-105(20121210), MW-104(20121211), MW-101(20121211), MW-107D(121212), MW-103(20121212), MW-101(20121213), MW-107S(20121214), and DUP-01(20121213) were used in the MS/MSD analyses. All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
MW-107D(121212)	ortho-Phosphate	150 %	140 %
MW-103(20121212)	ortho-Phosphate	148 %	---
MW-101(20121213)	Ammonia	142 %	135 %
MW-107S(20121214)	ortho-Phosphate	148 %	---

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery < 30%	Non-detect	R
	Detect	J
MS/MSD percent recovery > 125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Sample Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to five times the reporting limit (RL). A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of one times the RL is applied for water matrices and two times the RL for soil matrices.

All analytes associated with the laboratory duplicate sample results exhibited acceptable RPDs.

4. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
VOSS WELL(20121213) / DUP-01(20121213)	Bicarbonate Alkalinity	210	230	9.1 %
	Chloride	7.6	7.8	2.6 %
	Fluoride	0.051 J	0.048 J	AC
	Nitrate-N	1.0	1.0	0.0 %
	Sulfate	11	11	0.0 %

AC Acceptable

J Estimated (result is < RL)

The field duplicate sample results are acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

All analytes associated with the LCS analyses exhibited recoveries within the control limits.

6. System Performance and Overall Assessment


Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 2320B, 9056, SM4500 NH3, and SM4500 P-E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X

%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference, %D – difference

VALIDATION PERFORMED BY: Dennis Dyke

SIGNATURE: 

DATE: April 16, 2013

PEER REVIEW: Dennis Capria

DATE: April 17, 2013

**CHAIN OF CUSTODY /
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

North Canton

Regulatory program:

DW

☐ NPDES☐ RCRA☐ Other

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TAL 0018- 1 (04/10)

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-105(20121210)

Lab Sample ID: 240-18654-1

Date Sampled: 12/10/2012 1310

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69407

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX1542.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/19/2012 1825

Final Weight/Volume: 5 mL

Prep Date: 12/19/2012 1825

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.23	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.1		0.31	1.0
1,1-Dichloroethane	2.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	38		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.47	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-105(20121210)

Lab Sample ID: 240-18654-1

Date Sampled: 12/10/2012 1310

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69407	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX1542.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 1825			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1825				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.1		0.17	1.0
Trichlorofluoromethane	7.8		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	93		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-101(20121210)

Lab Sample ID: 240-18654-3

Date Sampled: 12/11/2012 1325

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69407

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX1544.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/19/2012 1907

Final Weight/Volume: 5 mL

Prep Date: 12/19/2012 1907

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.65	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.0		0.31	1.0
1,1-Dichloroethane	0.33	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	21		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.32	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-101(20121210)

Lab Sample ID: 240-18654-3

Date Sampled: 12/11/2012 1325

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-69407	Instrument ID: A3UX10
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXX1544.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 12/19/2012 1907		Final Weight/Volume: 5 mL
Prep Date: 12/19/2012 1907		

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.3		0.17	1.0
Trichlorofluoromethane	21		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		66 - 117
Dibromofluoromethane (Surr)	106		75 - 121
1,2-Dichloroethane-d4 (Surr)	95		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18654-4TB

Date Sampled: 12/11/2012 0000

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69407

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX1545.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/19/2012 1929

Final Weight/Volume: 5 mL

Prep Date: 12/19/2012 1929

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18654-4TB

Date Sampled: 12/11/2012 0000

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69407	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX1545.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 1929			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1929				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-105(20121210)

Lab Sample ID: 240-18654-1

Date Sampled: 12/10/2012 1310

Client Matrix: Water

Date Received: 12/12/2012 0800

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-69973	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-69534	Lab File ID:	I9122112A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/21/2012 1744			Final Weight/Volume:	50 mL
Prep Date:	12/20/2012 0817				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	110	J B	0.67	200
Boron	34	J	34	200
Calcium	70000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3100	J	72	5000
Magnesium	39000	B	34	5000
Manganese	4.1	J B	0.41	15
Sodium	7500		590	5000
Nickel	40	U	3.2	40
Zinc	20 41	J B UB	5.0	20
Lead	2.1	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2032			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	95	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

General Chemistry

Client Sample ID: MW-105(20121210)

Lab Sample ID: 240-18654-1

Client Matrix: Water

Date Sampled: 12/10/2012 1310

Date Received: 12/12/2012 0800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.2		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68285	Analysis Date: 12/12/2012 1241					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68286	Analysis Date: 12/12/2012 1241					
Fluoride-Dissolved	1.0	U	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-70733	Analysis Date: 12/31/2012 2303					
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68286	Analysis Date: 12/12/2012 1241					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68285	Analysis Date: 12/12/2012 1241					
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68286	Analysis Date: 12/12/2012 1241					
Sulfate-Dissolved	8.2		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68285	Analysis Date: 12/12/2012 1241					
Bicarbonate Alkalinity as CaCO3	320		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69192	Analysis Date: 12/17/2012 1227					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69192	Analysis Date: 12/17/2012 1227					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-70776	Analysis Date: 12/31/2012 1357					
	Prep Batch: 240-70668	Prep Date: 12/31/2012 0634					
Ammonia-Dissolved	0.20 0.090	UB UB	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-70347	Analysis Date: 12/27/2012 1457					

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

General Chemistry**Client Sample ID:** MW-101(20121210)

Lab Sample ID: 240-18654-3

Date Sampled: 12/11/2012 1325

Client Matrix: Water

Date Received: 12/12/2012 0800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bicarbonate Alkalinity as CaCO ₃	280		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69192	Analysis Date: 12/17/2012 1250						
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69192	Analysis Date: 12/17/2012 1250						

North Canton



Regulatory program:

Other

THE LEADER IN ENVIRONMENTAL TESTING

COC No: 049226

1 of 1 COCs

Special Instructions/QC Requirements & Comments:					
Email Results to John Shonfelt					
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	ARCADIS	12/12/12 1500		TA	12-10-12 915/A
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69796	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR4522.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/21/2012 2239			Final Weight/Volume:	5 mL
Prep Date:	12/21/2012 2239				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.3		0.31	1.0
1,1-Dichloroethane	0.59	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0 0.54	J-B UB	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.44	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69796	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR4522.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/21/2012 2239			Final Weight/Volume:	5 mL
Prep Date:	12/21/2012 2239				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0 0.33	JB UB	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.24	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.2		0.17	1.0
Trichlorofluoromethane	39		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	83		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
Toluene-d8 (Surr)	88		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9631.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1913			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1913				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	56	D	0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	79		75 - 121
1,2-Dichloroethane-d4 (Surr)	95		63 - 129
Toluene-d8 (Surr)	89		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107D(121212)

Lab Sample ID: 240-18762-2

Date Sampled: 12/12/2012 0935

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9635.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 2043			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 2043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	1.1	J	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107D(121212)

Lab Sample ID: 240-18762-2

Date Sampled: 12/12/2012 0935

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9635.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 2043			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 2043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.2		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	79		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	86		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18762-3TB

Client Matrix: Water

Date Sampled: 12/12/2012 0000

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9632.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1935			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1935				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18762-3TB

Client Matrix: Water

Date Sampled: 12/12/2012 0000

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9632.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1935			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1935				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	81		66 - 117
Dibromofluoromethane (Surr)	80		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	86		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9633.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1958			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1958				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.38	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.1		0.31	1.0
1,1-Dichloroethane	0.94	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.38	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-69586	Instrument ID: A3UX16
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXM9633.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 12/20/2012 1958		Final Weight/Volume: 5 mL
Prep Date: 12/20/2012 1958		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U*	0.27	1.0
Trichloroethene	2.1		0.17	1.0
Trichlorofluoromethane	20		0.21	1.0
1,2,3-Trichloropropane	1.0	U*	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	81		66 - 117
Dibromofluoromethane (Surr)	81		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	86		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69796	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR4508.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/21/2012 1725			Final Weight/Volume:	5 mL
Prep Date:	12/21/2012 1725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	35 D		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	83		66 - 117
Dibromofluoromethane (Surr)	109		75 - 121
1,2-Dichloroethane-d4 (Surr)	99		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70550	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70176	Lab File ID:	I9122812A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/28/2012 2107			Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0713				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	46	J B	0.67	200
Boron	200	U	34	200
Calcium	52000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	990	J B	72	5000
Magnesium	30000	B	34	5000
Manganese	15 2.6	J B UB	0.41	15
Sodium	2800	J	590	5000
Nickel	40	U	3.2	40
Zinc	180	B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	8800	B	14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2037			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	48	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107D(121212)

Lab Sample ID: 240-18762-2

Date Sampled: 12/12/2012 0935

Client Matrix: Water

Date Received: 12/13/2012 0915

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70678	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70398	Lab File ID:	I9123012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/30/2012 0908			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0818				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	J B	0.67	200
Boron	200	U	34	200
Calcium	40000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J	72	5000
Magnesium	25000	B	34	5000
Manganese	15 1.8	J B UB	0.41	15
Sodium	3400	J	590	5000
Nickel	40	U	3.2	40
Zinc	180	B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9300		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2051			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	43	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70550	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70176	Lab File ID:	I9122812A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/28/2012 2111			Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0713				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	JB	0.67	200
Boron	200	U	34	200
Calcium	45000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	JB	72	5000
Magnesium	27000	B	34	5000
Manganese	15	U	0.41	15
Sodium	3500	J	590	5000
Nickel	40	U	3.2	40
Zinc	20 11	JB UB	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9700	B	14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2114			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	48	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

General Chemistry

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	3.1		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2002					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2002					
Fluoride-Dissolved	0.073 1.0	J UB	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2002					
Nitrate as N-Dissolved	0.70		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2002					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2002					
Orthophosphate-Dissolved	0.28	J	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2002					
Sulfate-Dissolved	20		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2002					
Bicarbonate Alkalinity as CaCO3	230		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1331					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1331					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71049	Analysis Date: 01/03/2013 1528					
	Prep Batch: 240-70937	Prep Date: 01/03/2013 0646					
Ammonia-Dissolved	0.041	J	mg/L	0.035	0.20	1.0	SM4500 NH3-F
	Analysis Batch: 240-70760	Analysis Date: 12/31/2012 0933					

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

General Chemistry

Client Sample ID: MW-107D(121212)

Lab Sample ID: 240-18762-2

Date Sampled: 12/12/2012 0935

Client Matrix: Water

Date Received: 12/13/2012 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	0.98	J	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2035						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2035						
Fluoride-Dissolved	0.050 1.0	J UB	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2035						
Nitrate as N-Dissolved	0.029	J	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2035						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2035						
Orthophosphate-Dissolved	0.14	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2035						
Sulfate-Dissolved	15		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2035						
Bicarbonate Alkalinity as CaCO3	180		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1351						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1351						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71049	Analysis Date: 01/03/2013 1524						
Prep Batch: 240-70937	Prep Date: 01/03/2013 0638						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-70760	Analysis Date: 12/31/2012 0939						

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

General Chemistry

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	4.4		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2018					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2018					
Fluoride-Dissolved	1.0 0.042	UB J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2018					
Nitrate as N-Dissolved	0.32		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2018					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2018					
Orthophosphate-Dissolved	0.16	J	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2018					
Sulfate-Dissolved	13		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2018					
Bicarbonate Alkalinity as CaCO3	200		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1400					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1400					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71049	Analysis Date: 01/03/2013 1528					
	Prep Batch: 240-70937	Prep Date: 01/03/2013 0647					
Ammonia-Dissolved	0.061	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-70760	Analysis Date: 12/31/2012 0956					

North Canton

Regulatory program:

☐ DW

☐ NPDES☐ RCRA☐ Other

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Possible Hazard Identification

☒ Non-Hazard☐ Flammable☐ Skin Irritant

☐ Poison B

☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client☒ Disposal By Lab

☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Special Instructions/QC Requirements & Comments:
mw-101 is not preserved or field Filtered

Relinquished by _____

Company:

Date/Time: _____

444

Received by:

Company:

Date/Time:

Relinquished by:

Company:

Date/Time:

Received by:

Company:

Date/Time:

Relinquished by:

Company:	
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Date/Time:

Received in Laboratory by:

Company:

Date/Time:

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18845-1

Client Matrix: Water

Date Sampled: 12/13/2012 0000

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69888

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC8764.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/22/2012 1304

Final Weight/Volume: 5 mL

Prep Date: 12/22/2012 1304

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18845-1

Client Matrix: Water

Date Sampled: 12/13/2012 0000

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8764.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1304			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1304				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	90		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	89		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-1(20121213)

Lab Sample ID: 240-18845-2

Date Sampled: 12/13/2012 0930

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8765.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1327			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1327				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-1(20121213)

Lab Sample ID: 240-18845-2

Date Sampled: 12/13/2012 0930

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-69888	Instrument ID: A3UX15
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXC8765.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 12/22/2012 1327		Final Weight/Volume: 5 mL
Prep Date: 12/22/2012 1327		

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	88		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8782.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1945			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1945				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	4.2		0.31	1.0
1,1-Dichloroethane	1.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.59	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.2		0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8782.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1945			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1945				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.69	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.91	J	0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8766.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1349			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1349				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	130 D		1.7	8.0
Trichlorofluoromethane	88 D		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-1(20121213)

Lab Sample ID: 240-18845-2

Date Sampled: 12/13/2012 0930

Client Matrix: Water

Date Received: 12/14/2012 0920

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70678	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9123012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/30/2012 1406			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	330		0.67	200
Boron	200	U	34	200
Calcium	36000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	740	J	72	5000
Magnesium	22000		34	5000
Manganese	15	U	0.41	15
Sodium	2600	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-70946	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9120212A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1402			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9300		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2119			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	38	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-101(20121213)

Lab Sample ID: 240-18845-3

Date Sampled: 12/13/2012 1200

Client Matrix: Water

Date Received: 12/14/2012 0920

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-69732	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-69386	Lab File ID:	I9122012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/20/2012 1937			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1012				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Boron	200	U	34	200
Barium	200 33	J-B UB	0.67	200
Calcium	57000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1500	J-B	72	5000
Magnesium	31000	B	34	5000
Manganese	15 0.61	J-B UB	0.41	15
Sodium	4300	J	590	5000
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	50 42	J-B UB	5.0	50
Li	50 4.0	J-B UB	1.8	50
SiO2, Silica	8300		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62987	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 1930			Final Weight/Volume:	50 mL
Prep Date:	02/05/2013 1314				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	55	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70678	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9123012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/30/2012 1410			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	71	J	0.67	200
Boron	200	U	34	200
Calcium	45000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	900	J	72	5000
Magnesium	25000		34	5000
Manganese	15 2.5	J UB	0.41	15
Sodium	4600	J	590	5000
Nickel	3.5	J	3.2	40
Zinc	6.3	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-70946	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9120212A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1406			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2123			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	45	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

General Chemistry

Client Sample ID: MW-1(20121213)

Lab Sample ID: 240-18845-2

Date Sampled: 12/13/2012 0930

Client Matrix: Water

Date Received: 12/14/2012 0920

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.5		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68825		Analysis Date: 12/14/2012 1921					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68826		Analysis Date: 12/14/2012 1921					
Fluoride-Dissolved	1.0 0.049	UB J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68825		Analysis Date: 12/14/2012 1921					
Nitrate as N-Dissolved	0.75		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68826		Analysis Date: 12/14/2012 1921					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68825		Analysis Date: 12/14/2012 1921					
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68826		Analysis Date: 12/14/2012 1921					
Sulfate-Dissolved	5.8		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68825		Analysis Date: 12/14/2012 1921					
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69558		Analysis Date: 12/20/2012 0240					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69558		Analysis Date: 12/20/2012 0240					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-70517		Analysis Date: 12/28/2012 1520					
Prep Batch: 240-70389		Prep Date: 12/28/2012 0743					
Ammonia-Dissolved	0.20 0.075	UB J	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-70907		Analysis Date: 01/02/2013 1557					

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

General Chemistry**Client Sample ID:** MW-101(20121213)

Lab Sample ID: 240-18845-3

Date Sampled: 12/13/2012 1200

Client Matrix: Water

Date Received: 12/14/2012 0920

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71300	Analysis Date: 01/07/2013 1531					
	Prep Batch: 240-71195	Prep Date: 01/07/2013 0734					
Ammonia-Dissolved	0.20 0.096	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-70910	Analysis Date: 01/02/2013 1654					

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

General Chemistry

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Client Matrix: Water

Date Sampled: 12/12/2012 1040

Date Received: 12/14/2012 0920

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	11		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68825	Analysis Date: 12/14/2012 1937					
Nitrite as N-Dissolved	0.10	UJ UH	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68826	Analysis Date: 12/14/2012 1937					
Fluoride-Dissolved	1.0 0.064	UB J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68825	Analysis Date: 12/14/2012 1937					
Nitrate as N-Dissolved	1.7	J H	mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68826	Analysis Date: 12/14/2012 1937					
Bromide-Dissolved	0.13	J	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68825	Analysis Date: 12/14/2012 1937					
Orthophosphate-Dissolved	0.50	UJ UH	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68826	Analysis Date: 12/14/2012 1937					
Sulfate-Dissolved	1.2		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68825	Analysis Date: 12/14/2012 1937					
Bicarbonate Alkalinity as CaCO3	200		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69558	Analysis Date: 12/20/2012 0251					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69558	Analysis Date: 12/20/2012 0251					
Total Phosphorus as P-Dissolved	0.043	J	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-70517	Analysis Date: 12/28/2012 1520					
	Prep Batch: 240-70389	Prep Date: 12/28/2012 0742					
Ammonia-Dissolved	0.20 0.065	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
	Analysis Batch: 240-70907	Analysis Date: 01/02/2013 1600					

North Canton OH

Regulatory program:

☐ DW ☐ NPDES ☐ RCRA ☐ Other

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Special Instructions/QC Requirements & Comments:
→ Real ID: MW-1085(20121214)

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TAL 0018-1 (04/30)

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-1A(20121213)

Lab Sample ID: 240-18953-1

Date Sampled: 12/13/2012 1700

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-70043

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ9256.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/24/2012 2042

Final Weight/Volume: 5 mL

Prep Date: 12/24/2012 2042

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.39	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.51	J	0.31	1.0
1,1-Dichloroethane	0.43	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	15		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-1A(20121213)

Lab Sample ID: 240-18953-1

Date Sampled: 12/13/2012 1700

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-70043	Instrument ID: A3UX11
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXJ9256.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 12/24/2012 2042		Final Weight/Volume: 5 mL
Prep Date: 12/24/2012 2042		

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U*	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.74	J	0.17	1.0
Trichlorofluoromethane	3.4		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		66 - 117
Dibromofluoromethane (Surr)	86		75 - 121
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102A(20121213)

Lab Sample ID: 240-18953-2

Date Sampled: 12/14/2012 1150

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9257.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2105			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.6		0.31	1.0
1,1-Dichloroethane	1.4		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	19		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102A(20121213)

Lab Sample ID: 240-18953-2


Date Sampled: 12/14/2012 1150

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9257.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2105			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U 	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.79	J	0.17	1.0
Trichlorofluoromethane	9.1		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		66 - 117
Dibromofluoromethane (Surr)	83		75 - 121
1,2-Dichloroethane-d4 (Surr)	79		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102B(20121213)

Lab Sample ID: 240-18953-3

Date Sampled: 12/14/2012 1020

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9258.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2128			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2128				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.2		0.31	1.0
1,1-Dichloroethane	0.81	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	19		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.31	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102B(20121213)

Lab Sample ID: 240-18953-3

Date Sampled: 12/14/2012 1020

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9258.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2128			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2128				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.42	J	0.17	1.0
Trichlorofluoromethane	5.9		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	110		66 - 117
Dibromofluoromethane (Surr)	86		75 - 121
1,2-Dichloroethane-d4 (Surr)	81		63 - 129
Toluene-d8 (Surr)	98		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18953-4TB

Client Matrix: Water

Date Sampled: 12/14/2012 0000

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9259.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2150			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2150				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18953-4TB


Client Matrix: Water

Date Sampled: 12/14/2012 0000

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9259.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2150			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2150				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U 	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	83		75 - 121
1,2-Dichloroethane-d4 (Surr)	80		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-70043

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ9260.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/24/2012 2212

Final Weight/Volume: 5 mL

Prep Date: 12/24/2012 2212

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.40	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.4		0.31	1.0
1,1-Dichloroethane	1.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.71	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5


Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9260.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2212			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2212				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U 	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.1		0.17	1.0
Trichlorofluoromethane	10		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		66 - 117
Dibromofluoromethane (Surr)	89		75 - 121
1,2-Dichloroethane-d4 (Surr)	82		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70091	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9283.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/26/2012 1202			Final Weight/Volume:	5 mL
Prep Date:	12/26/2012 1202				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	57 D		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		66 - 117
Dibromofluoromethane (Surr)	84		75 - 121
1,2-Dichloroethane-d4 (Surr)	79		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9261.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2235			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	4.1		0.31	1.0
1,1-Dichloroethane	2.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.32	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.94	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9261.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2235			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U 7	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.27	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.8		0.17	1.0
Trichlorofluoromethane	39		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		66 - 117
Dibromofluoromethane (Surr)	83		75 - 121
1,2-Dichloroethane-d4 (Surr)	79		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70091	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9284.D
Dilution:	3.33			Initial Weight/Volume:	5 mL
Analysis Date:	12/26/2012 1224			Final Weight/Volume:	5 mL
Prep Date:	12/26/2012 1224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	77 D		1.4	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	108		66 - 117
Dibromofluoromethane (Surr)	83		75 - 121
1,2-Dichloroethane-d4 (Surr)	80		63 - 129
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9262.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2257			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2257				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	5.2		0.31	1.0
1,1-Dichloroethane	2.4		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.28	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	0.51	JB UB	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.88	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD


Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9262.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2257			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2257				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U 	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.28	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.7		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		66 - 117
Dibromofluoromethane (Surr)	86		75 - 121
1,2-Dichloroethane-d4 (Surr)	83		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70091	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9285.D
Dilution:	3.33			Initial Weight/Volume:	5 mL
Analysis Date:	12/26/2012 1247			Final Weight/Volume:	5 mL
Prep Date:	12/26/2012 1247				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	78 D		1.4	6.7
Trichlorofluoromethane	46 D		0.70	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		66 - 117
Dibromofluoromethane (Surr)	85		75 - 121
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: EB-01(20121213)

Lab Sample ID: 240-18953-8EB

Client Matrix: Water

Date Sampled: 12/14/2012 1045

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9263.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2319			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2319				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.42	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: EB-01(20121213)

Lab Sample ID: 240-18953-8EB


Client Matrix: Water

Date Sampled: 12/14/2012 1045

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9263.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2319			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2319				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U 	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	86		75 - 121
1,2-Dichloroethane-d4 (Surr)	81		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-1A(20121213)

Lab Sample ID: 240-18953-1

Client Matrix: Water

Date Sampled: 12/13/2012 1700

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70678	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9123012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/30/2012 1446			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	110	J	0.67	200
Boron	200	U	34	200
Calcium	64000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2700	J	72	5000
Magnesium	35000		34	5000
Manganese	15 0.71	J UB	0.41	15
Sodium	5200		590	5000
Nickel	40	U	3.2	40
Zinc	7.0	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-70946	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9120212A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1414			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2128			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	94	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102A(20121213)

Lab Sample ID: 240-18953-2

Date Sampled: 12/14/2012 1150

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1748			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	47	J	0.67	200
Boron	200	U	34	200
Calcium	39000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J	72	5000
Magnesium	22000		34	5000
Manganese	15 1.4	J UB	0.41	15
Sodium	3100	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9800		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2133			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	40	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102B(20121213)

Lab Sample ID: 240-18953-3

Date Sampled: 12/14/2012 1020

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1752			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	78	J	0.67	200
Boron	200	U	34	200
Calcium	58000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2600	J	72	5000
Magnesium	33000		34	5000
Manganese	15 0.94	J UB	0.41	15
Sodium	8600		590	5000
Nickel	40	U	3.2	40
Zinc	6.1	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2138			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	66	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1756			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180	J	0.67	200
Boron	34	J	34	200
Calcium	76000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2300	J	72	5000
Magnesium	41000		34	5000
Manganese	9.6	J	0.41	15
Sodium	6900		590	5000
Nickel	8.5	J	3.2	40
Zinc	120		5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2152			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	110	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1759			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180	J	0.67	200
Boron	200	U	34	200
Calcium	46000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J	72	5000
Magnesium	26000		34	5000
Manganese	15	U	0.41	15
Sodium	3800	J	590	5000
Nickel	40	U	3.2	40
Zinc	8.5	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2157			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	44	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1803			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	190	J	0.67	200
Boron	200	U	34	200
Calcium	45000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J	72	5000
Magnesium	26000		34	5000
Manganese	15 0.43	J UB	0.41	15
Sodium	3800	J	590	5000
Nickel	40	U	3.2	40
Zinc	8.0	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2202			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	45	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: EB-01(20121213)

Lab Sample ID: 240-18953-8EB


Date Sampled: 12/14/2012 1045

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1815			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	7.0	J	0.67	200
Boron	200	U	34	200
Calcium	1100	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	530	J	34	5000
Manganese	0.49	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	330	J 	14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2207			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	1.2	J B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: MW-1A(20121213)

Lab Sample ID: 240-18953-1

Date Sampled: 12/13/2012 1700

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.2		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1546					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1546					
Fluoride-Dissolved	1.0 0.036	UB J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1546					
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1546					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1546					
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1546					
Sulfate-Dissolved	6.0		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1546					
Bicarbonate Alkalinity as CaCO3	290		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2336					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2336					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430					
	Prep Batch: 240-71194	Prep Date: 01/07/2013 0725					
Ammonia-Dissolved	0.20 0.003	UB J-B	mg/L	0.035	0.20	1.0	SM4500 NH3-F
	Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130					

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: MW-102A(20121213)

Lab Sample ID: 240-18953-2

Date Sampled: 12/14/2012 1150

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.3		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1724					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1724					
Fluoride-Dissolved	1.0 0.054	UB J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1724					
Nitrate as N-Dissolved	1.3		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1724					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1724					
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1724					
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1724					
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1825					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1825					
Total Phosphorus as P-Dissolved	0.080	J	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430					
	Prep Batch: 240-71194	Prep Date: 01/07/2013 0732					
Ammonia-Dissolved	0.20 0.054	UB J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130					

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: MW-102B(20121213)

Lab Sample ID: 240-18953-3

Date Sampled: 12/14/2012 1020

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.7		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1741					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1741					
Fluoride-Dissolved	1.0 0.030	UB J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1741					
Nitrate as N-Dissolved	0.76		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1741					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1741					
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1741					
Sulfate-Dissolved	7.3		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1741					
Bicarbonate Alkalinity as CaCO3	270		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1839					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1839					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430					
	Prep Batch: 240-71194	Prep Date: 01/07/2013 0733					
Ammonia-Dissolved	0.20 0.047	UB J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130					

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.0		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1652					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1652					
Fluoride-Dissolved	1.0 0.024	UB J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1652					
Nitrate as N-Dissolved	0.28		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1652					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1652					
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1652					
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1652					
Bicarbonate Alkalinity as CaCO3	340		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1903					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1903					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430					
	Prep Batch: 240-71194	Prep Date: 01/07/2013 0735					
Ammonia-Dissolved	0.20 0.046	UB J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130					

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.6		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1602					
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1602					
Fluoride-Dissolved	1.0 0.051	UB J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1602					
Nitrate as N-Dissolved	1.0		mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1602					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1602					
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1602					
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1602					
Bicarbonate Alkalinity as CaCO3	210		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2239					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2239					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430					
	Prep Batch: 240-71194	Prep Date: 01/07/2013 0726					
Ammonia-Dissolved	0.20 0.037	UB J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130					

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Client Matrix: Water

Date Sampled: 12/13/2012 0000

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.8		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1619					
Nitrite as N-Dissolved	0.10	UJ UH	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1619					
Fluoride-Dissolved	1.0 0.048	UB J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1619					
Nitrate as N-Dissolved	1.0	J HH	mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1619					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1619					
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1619					
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1619					
Bicarbonate Alkalinity as CaCO3	230		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2250					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2250					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430					
	Prep Batch: 240-71194	Prep Date: 01/07/2013 0727					
Ammonia-Dissolved	1.0 0.036	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130					

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry**Client Sample ID:** EB-01(20121213)

Lab Sample ID: 240-18953-8EB

Date Sampled: 12/14/2012 1045

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	0.11	J	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1635						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1635						
Fluoride-Dissolved	0.031	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1635						
Nitrate as N-Dissolved	0.10	U	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1635						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1635						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1635						
Sulfate-Dissolved	0.23	J	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1635						
Bicarbonate Alkalinity as CaCO ₃	5.5		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1910						
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1910						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1432						
Prep Batch: 240-71194	Prep Date: 01/07/2013 0736						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1335						

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile, Metals, and Misc. Analyses

SDGs #240-1297, 240-1920, 240-206,
240-2977, 240-3103, 240-3375, and 240-3479

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19040R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) 240-1297, 240-1920, 240-206, 240-2977, 240-3103, 240-3375, and 240-3479 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample Delivery Group	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
240-1297	MW-107 BH@185(20110617)	240-1297-1	Water	6/17/2011		X				
240-1920	MW-107BH@235'(20110711)	240-1920-1	Water	7/11/2011		X			X	X
	TRIP BLANK_7/11/2011	240-1920-2	Water	7/11/2011		X				
240-206	MW-107B4@97'(20110516)	240-206-1	Water	5/16/2011		X				
	TRIP BLANK(20110516)	240-206-2	Water	5/16/2011		X				
240-2977	MW-107BH@295'(20110817)	240-2977-1	Water	8/17/2011		X			X	X
	TRIP BLANK_8/17/2011	240-2977-2	Water	8/17/2011		X				
240-3103	MW-107BH@355'(20110822)	240-3103-1	Water	8/22/2011		X			X	X
	TRIP BLANK_8/22/2011	240-3103-2	Water	8/22/2011		X				
240-3375	MW-108BH@295'(20110829)	240-3375-1	Water	8/29/2011		X			X	X
	TRIP BLANK_8/29/2011	240-3375-2	Water	8/29/2011		X				
240-3479	MW-108BH@355'(20110831)	240-3479-1	Water	8/31/2011		X			X	X
	TRIP BLANK_8/31/2011	240-3479-2	Water	8/31/2011		X				

Note:

- Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.
- The matrix spike/matrix spike duplicates (MS/MSD) were performed on sample location MW-108BH@295'(20110829).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. Therefore, sample results greater than the BAL resulted in the removal of the laboratory qualifier (J). No other qualification of the sample results was required.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited recoveries and RPD within the control limit.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
MW-107 BH@185(20110617)	Trichlorofluoromethane	>UL	-

AC = Acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate was not analyzed on a sample within this data set.

6. System Performance and Overall Assessment

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-108BH@295'(20110829)	Dichlorofluoromethane	--	68 D	68 D
MW-108BH@355'(20110831)	Dichlorofluoromethane	--	50 D	68 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 2320B, 9056, SM4500 NH₃, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.

- N Spiked sample recovery is not within control limits.

- * Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

- UB Analyte considered non-detect at the listed value due to associated blank contamination.

- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW-107BH@295'(20110817)	Manganese	Detected sample results <RL and <BAL	"UB" at the RL
MW-107BH@295'(20110817) MW-107BH@355'(20110822)	Zinc		

RL = reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the

control limits and the laboratory qualifier "N" will be removed.

The MS/MSD analysis exhibited acceptable recoveries and RPD between recoveries.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not analyzed on a sample within this data set.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution was not performed on a sample location within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks					X	
B. Method Blanks		X	X			
C. Equipment/Field Blanks					X	
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
ICP Serial Dilution					X	
Reporting Limit Verification		X		X		
Raw Data		X		X		

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Ammonia-N by SM4500 NH ₃	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C±2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

The analyses that exceeded the holding time are presented in the following table.

Sample Locations	Analyte	Holding Time	Criteria
MW-108BH@355'(20110831)	Nitrate Nitrite Orthophosphate	>96 hours	<48 hours
MW-107BH@235'(20110711)		>48 hours but <96 hours	<48 hours

Sample results associated with sample locations analyzed by analytical method SW-846 9056 were qualified, as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed less than two times holding time	J	UJ
Analysis completed greater than two times holding time	J	R

Note: Due to the ready conversion of nitrite into nitrate, nitrate results for samples analyzed greater than 48 hours after collection should be considered as nitrate+nitrite. The sample results were qualified as outlined in the table above.

Similarly, ortho-phosphate readily converts to a more stable form and may only be detected as total phosphorus after 48 hours. In the instance where the total phosphorus result for a sample location was non-detect; the data were qualified as estimated regardless of the exceedance in the holding time.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW-108BH@355'(20110831) MW-107BH@355'(20110822)	Ammonia	Detected sample results <RL and <BAL	"UB" at the RL

RL = reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

All analytes associated with MS/MSD recoveries were within control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

An MS/MSD was performed in replacement of the laboratory duplicate. All analytes associated with MS/MSD recoveries exhibited RPD within control limits.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not analyzed on a sample within this data set.

5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

All LCS recoveries were within control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 1677	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R - percent recovery, RPD - relative percent difference,
 %D – difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 16, 2013

PEER REVIEW: Dennis Capria

DATE: April 19, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

Analytical Data

Client: TRW Automotive

Job Number: 240-1297-1

Client Sample ID: MW-107 BH@185(20110617)

Lab Sample ID: 240-1297-1

Date Sampled: 06/17/2011 0755

Client Matrix: Water

Date Received: 06/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX2790.D
Dilution:	1.42857			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1418				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.28	J	0.19	1.4
Bromobenzene	1.4	U	0.19	1.4
Bromoform	1.4	U	0.91	1.4
Bromomethane	1.4	U	0.59	1.4
Carbon tetrachloride	1.4	U	0.19	1.4
Chlorobenzene	1.4	U	0.21	1.4
Dibromochloromethane	1.4	U	0.26	1.4
Chloroethane	1.4	U	0.41	1.4
Chloroform	1.4	U	0.23	1.4
Chloromethane	1.4	U	0.43	1.4
2-Chlorotoluene	1.4	U	0.16	1.4
4-Chlorotoluene	1.4	U	0.26	1.4
cis-1,2-Dichloroethene	1.4	U	0.24	1.4
cis-1,3-Dichloropropene	1.4	U	0.20	1.4
Dibromomethane	1.4	U	0.40	1.4
1,2-Dichlorobenzene	1.4	U	0.19	1.4
1,3-Dichlorobenzene	1.4	U	0.20	1.4
1,4-Dichlorobenzene	1.4	U	0.19	1.4
Bromodichloromethane	1.4	U	0.21	1.4
Dichlorodifluoromethane	1.7		0.44	1.4
1,1-Dichloroethane	1.4	U	0.21	1.4
1,2-Dichloroethane	1.4	U	0.31	1.4
1,1-Dichloroethene	1.4	U	0.27	1.4
Dichlorofluoromethane	37		0.60	2.9
1,2-Dichloropropane	1.4	U	0.26	1.4
1,3-Dichloropropane	1.4	U	0.23	1.4
2,2-Dichloropropane	1.4	U	0.19	1.4
1,1-Dichloropropene	1.4	U	0.19	1.4
Ethylbenzene	1.4	U	0.24	1.4
Hexachlorobutadiene	1.4	U	0.43	1.4
Isopropylbenzene	1.4	U	0.19	1.4
p-Isopropyltoluene	1.4	U	0.17	1.4
Methylene Chloride	1.4	U	0.47	1.4
m-Xylene & p-Xylene	2.9	U	0.34	2.9
Naphthalene	1.4	U	0.34	1.4
n-Butylbenzene	1.4	U	0.17	1.4
N-Propylbenzene	1.4	U	0.20	1.4
o-Xylene	1.4	U	0.20	1.4
sec-Butylbenzene	1.4	U	0.19	1.4
Styrene	1.4	U	0.16	1.4
tert-Butylbenzene	1.4	U	0.19	1.4
1,1,1,2-Tetrachloroethane	1.4	U	0.33	1.4
1,1,2,2-Tetrachloroethane	1.4	U	0.26	1.4
Tetrachloroethene	0.49	J	0.41	1.4
Toluene	1.6		0.19	1.4
trans-1,2-Dichloroethene	1.4	U	0.27	1.4

Analytical Data

Client: TRW Automotive

Job Number: 240-1297-1

Client Sample ID: MW-107 BH@185(20110617)

Lab Sample ID: 240-1297-1


Date Sampled: 06/17/2011 0755

Client Matrix: Water

Date Received: 06/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 240-6569	Instrument ID: A3UX10
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXX2790.D
Dilution: 1.42857		Initial Weight/Volume: 5 mL
Analysis Date: 06/29/2011 1418		Final Weight/Volume: 5 mL
Prep Date: 06/29/2011 1418		

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.4	U	0.27	1.4
1,2,3-Trichlorobenzene	1.4	U	0.24	1.4
1,2,4-Trichlorobenzene	1.4	U	0.21	1.4
1,1,1-Trichloroethane	1.4	U	0.31	1.4
1,1,2-Trichloroethane	1.4	U	0.39	1.4
Trichloroethene	2.6		0.24	1.4
Trichlorofluoromethane	37 J		0.30	1.4
1,2,3-Trichloropropane	1.4	U	0.61	1.4
1,2,4-Trimethylbenzene	1.4	U	0.17	1.4
1,3,5-Trimethylbenzene	1.4	U	0.14	1.4
Vinyl chloride	1.4	U	0.31	1.4
Bromochloromethane	1.4	U	0.41	1.4
1,2-Dibromoethane	1.4	U	0.34	1.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	88		75 - 121
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: MW-107BH@235'(20110711)

Lab Sample ID: 240-1920-1

Date Sampled: 07/11/2011 1545

Client Matrix: Water

Date Received: 07/13/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-8795	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC6807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/18/2011 1554			Final Weight/Volume:	5 mL
Prep Date:	07/18/2011 1554				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.1		0.31	1.0
1,1-Dichloroethane	0.19	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	22		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.40	J	0.29	1.0
Toluene	2.1		0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: MW-107BH@235'(20110711)

Lab Sample ID: 240-1920-1

Date Sampled: 07/11/2011 1545

Client Matrix: Water

Date Received: 07/13/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-8795	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC6807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/18/2011 1554			Final Weight/Volume:	5 mL
Prep Date:	07/18/2011 1554				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.0		0.17	1.0
Trichlorofluoromethane	32		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	111		63 - 129
Toluene-d8 (Surr)	103		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-1920-2TB

Client Matrix: Water

Date Sampled: 07/11/2011 0000

Date Received: 07/13/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-8795

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC6808.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/18/2011 1617

Final Weight/Volume: 5 mL

Prep Date: 07/18/2011 1617

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.27	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-1920-2TB

Date Sampled: 07/11/2011 0000

Client Matrix: Water

Date Received: 07/13/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-8795

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC6808.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/18/2011 1617

Final Weight/Volume: 5 mL

Prep Date: 07/18/2011 1617

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	109		63 - 129
Toluene-d8 (Surr)	101		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: MW-107BH@235'(20110711)

Lab Sample ID: 240-1920-1

Date Sampled: 07/11/2011 1545

Client Matrix: Water

Date Received: 07/13/2011 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-9023	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-8571	Lab File ID:	I60719A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/19/2011 2358			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1001				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	49	J B	0.67	200
Boron	200	U	34	200
Calcium	50000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2100	J B	72	5000
Magnesium	33000		34	5000
Manganese	17		0.41	15
Sodium	4600	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20

Analysis Method:	6010B	Analysis Batch:	240-9189	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-8571	Lab File ID:	I60720A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/20/2011 1631			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1001				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-9452	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-9197	Lab File ID:	Q10803B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/03/2011 1728			Final Weight/Volume:	50 mL
Prep Date:	08/02/2011 1105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9800		29	1100
Lithium	5.1	J	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-9505	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-9196	Lab File ID:	M10803A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/03/2011 1800			Final Weight/Volume:	50 mL
Prep Date:	08/02/2011 1105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	56		0.018	10

Client: TRW Automotive

Job Number: 240-1920-1

General Chemistry

Client Sample ID: MW-107BH@235'(20110711)

Lab Sample ID: 240-1920-1

Date Sampled: 07/11/2011 1545

Client Matrix: Water

Date Received: 07/13/2011 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.6		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-8357	Analysis Date: 07/14/2011	1008				
Nitrite as N-Dissolved	0.10	U H J	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-8356	Analysis Date: 07/14/2011	1008				
Fluoride-Dissolved	0.077	J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-8357	Analysis Date: 07/14/2011	1008				
Nitrate as N-Dissolved	0.52	H J	mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-8356	Analysis Date: 07/14/2011	1008				
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-8357	Analysis Date: 07/14/2011	1008				
Orthophosphate-Dissolved	0.58	H J	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-8356	Analysis Date: 07/14/2011	1008				
Sulfate-Dissolved	9.8		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-8357	Analysis Date: 07/14/2011	1008				
Bicarbonate Alkalinity as CaCO3	240		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-8495	Analysis Date: 07/14/2011	1510				
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-8495	Analysis Date: 07/14/2011	1510				
Total Phosphorus as PO4-Dissolved	0.033	J	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-8638	Analysis Date: 07/15/2011	1506				
	Prep Batch: 240-8560	Prep Date: 07/15/2011	0915				

Project Number/Name TRW 06V 002 / KC00 1590.0003.00002

Project Location Sullivan, MO

Laboratory Test America - North Canton

Project Manager Denise Pohl

Sampler(s)/Affiliation Larry Benoitkin / AREADIS

ANALYSIS / METHOD / SIZE:

VOCs by 8260B

[illegible]

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/
Containers

Relinquished by: <i>Larry Benish</i>	Organization: <i>AREADIS</i>	Date: <i>5/16/2011</i>	Time: <i>1530</i>	Seal Intact?
Received by: <i>Ch. Lopez</i>	Organization: <i>TAL</i>	Date: <i>5/17/11</i>	Time: <i>940</i>	Yes No N/A
Relinquished by:	Organization:	Date: <i>1 1</i>	Time:	Seal Intact?
Received by:	Organization:	Date: <i>1 1</i>	Time:	Yes No N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person

☒ Common Carrier FedEx

☐ Lab Courier

☐ Other

SPECIFY

SPECIFY

Analytical Data

Client: TRW Automotive

Job Number: 240-206-1

Client Sample ID: MW-107B4@97'(20110516)

Lab Sample ID: 240-206-1

Date Sampled: 05/16/2011 1310

Client Matrix: Water

Date Received: 05/17/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-2878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX1916.D
Dilution:	166.67			Initial Weight/Volume:	5 mL
Analysis Date:	05/27/2011 1540	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	05/27/2011 1540				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	170	U	22	170
Bromobenzene	170	U	22	170
Bromoform	170	U	110	170
Bromomethane	170	U	68	170
Carbon tetrachloride	170	U	22	170
Chlorobenzene	170	U	25	170
Dibromochloromethane	170	U	30	170
Chloroethane	170	U	48	170
Chloroform	170	U	27	170
Chloromethane	170	U	50	170
2-Chlorotoluene	170	U	18	170
4-Chlorotoluene	170	U	30	170
cis-1,2-Dichloroethene	170	U	28	170
cis-1,3-Dichloropropene	170	U	23	170
Dibromomethane	170	U	47	170
1,2-Dichlorobenzene	170	U	22	170
1,3-Dichlorobenzene	170	U	23	170
1,4-Dichlorobenzene	170	U	22	170
Bromodichloromethane	170	U	25	170
Dichlorodifluoromethane	170	U	52	170
1,1-Dichloroethane	170	U	25	170
1,2-Dichloroethane	170	U	37	170
1,1-Dichloroethene	170	U	32	170
Dichlorofluoromethane	1600		70	330
1,2-Dichloropropane	170	U	30	170
1,3-Dichloropropane	170	U	27	170
2,2-Dichloropropane	170	U	22	170
1,1-Dichloropropene	170	U	22	170
Ethylbenzene	170	U	28	170
Hexachlorobutadiene	170	U	50	170
Isopropylbenzene	170	U	22	170
p-Isopropyltoluene	170	U	20	170
Methylene Chloride	3500		55	170
m-Xylene & p-Xylene	330	U	40	330
Naphthalene	170	U	40	170
n-Butylbenzene	170	U	20	170
N-Propylbenzene	170	U	23	170
o-Xylene	170	U	23	170
sec-Butylbenzene	170	U	22	170
Styrene	170	U	18	170
tert-Butylbenzene	170	U	22	170
1,1,1,2-Tetrachloroethane	170	U	38	170
1,1,2,2-Tetrachloroethane	170	U	30	170
Tetrachloroethene	170	U	48	170
Toluene	300		22	170
trans-1,2-Dichloroethene	170	U	32	170

Analytical Data

Client: TRW Automotive

Job Number: 240-206-1

Client Sample ID: MW-107B4@97'(20110516)

Lab Sample ID: 240-206-1

Date Sampled: 05/16/2011 1310

Client Matrix: Water

Date Received: 05/17/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-2878	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX1916.D
Dilution:	166.67			Initial Weight/Volume:	5 mL
Analysis Date:	05/27/2011 1540	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	05/27/2011 1540				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	170	U	32	170
1,2,3-Trichlorobenzene	170	U	28	170
1,2,4-Trichlorobenzene	170	U	25	170
1,1,1-Trichloroethane	170	U	37	170
1,1,2-Trichloroethane	170	U	45	170
Trichloroethene	170	U	28	170
Trichlorofluoromethane	300		35	170
1,2,3-Trichloropropane	170	U	72	170
1,2,4-Trimethylbenzene	170	U	20	170
1,3,5-Trimethylbenzene	170	U	16	170
Vinyl chloride	170	U	37	170
Bromochloromethane	170	U	48	170
1,2-Dibromoethane	170	U	40	170

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-206-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-206-2TB

Client Matrix: Water

Date Sampled: 05/16/2011 0000

Date Received: 05/17/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-2878

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX1917.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/27/2011 1601

Final Weight/Volume: 5 mL

Prep Date: 05/27/2011 1601

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-206-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-206-2TB

Date Sampled: 05/16/2011 0000

Client Matrix: Water

Date Received: 05/17/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-2878

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX1917.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/27/2011 1601

Final Weight/Volume: 5 mL

Prep Date: 05/27/2011 1601

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-2977-1

Client Sample ID: MW-107BH@295'(20110817)

Lab Sample ID: 240-2977-1

Date Sampled: 08/17/2011 1530

Client Matrix: Water

Date Received: 08/18/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-13394	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9294.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/26/2011 1652			Final Weight/Volume:	5 mL
Prep Date:	08/26/2011 1652				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	0.37	J	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.2		0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	32		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.38	J	0.29	1.0
Toluene	3.0		0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-2977-1

Client Sample ID: MW-107BH@295'(20110817)

Lab Sample ID: 240-2977-1

Date Sampled: 08/17/2011 1530

Client Matrix: Water

Date Received: 08/18/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-13394	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9294.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/26/2011 1652			Final Weight/Volume:	5 mL
Prep Date:	08/26/2011 1652				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.2		0.17	1.0
Trichlorofluoromethane	30		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	94		75 - 121
1,2-Dichloroethane-d4 (Surr)	68		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-2977-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-2977-2TB

Client Matrix: Water

Date Sampled: 08/17/2011 0000

Date Received: 08/18/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-13394	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9295.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/26/2011 1715			Final Weight/Volume:	5 mL
Prep Date:	08/26/2011 1715				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.26	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-2977-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-2977-2TB

Date Sampled: 08/17/2011 0000

Client Matrix: Water

Date Received: 08/18/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-13394	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9295.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/26/2011 1715			Final Weight/Volume:	5 mL
Prep Date:	08/26/2011 1715				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	67		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-2977-1

Client Sample ID: MW-107BH@295'(20110817)

Lab Sample ID: 240-2977-1

Date Sampled: 08/17/2011 1530

Client Matrix: Water

Date Received: 08/18/2011 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-12871	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-12642	Lab File ID:	I60822A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/22/2011 1654			Final Weight/Volume:	50 mL
Prep Date:	08/19/2011 1300				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	51	J B	0.67	200
Boron	200	U	34	200
Calcium	53000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1500	J B	72	5000
Magnesium	34000		34	5000
Manganese	3.5 15 UB	J-B	0.41	15
Sodium	5700		590	5000
Nickel	40	U	3.2	40
Zinc	11 20 UB	J-B	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-13512	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-13323	Lab File ID:	Q10909A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/09/2011 1028			Final Weight/Volume:	50 mL
Prep Date:	09/08/2011 1309				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9200		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-13790	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-13322	Lab File ID:	X10912A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2011 1523			Final Weight/Volume:	50 mL
Prep Date:	09/08/2011 1308				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	61	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-2977-1

General Chemistry

Client Sample ID: MW-107BH@295'(20110817)

Lab Sample ID: 240-2977-1

Date Sampled: 08/17/2011 1530

Client Matrix: Water

Date Received: 08/18/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.1		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-12510	Analysis Date: 08/19/2011 0101						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-12511	Analysis Date: 08/19/2011 0101						
Fluoride-Dissolved	0.064	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-12510	Analysis Date: 08/19/2011 0101						
Nitrate as N-Dissolved	0.42		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-12511	Analysis Date: 08/19/2011 0101						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-12510	Analysis Date: 08/19/2011 0101						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-12511	Analysis Date: 08/19/2011 0101						
Sulfate-Dissolved	7.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-12510	Analysis Date: 08/19/2011 0101						
Bicarbonate Alkalinity as CaCO3	250		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-13080	Analysis Date: 08/23/2011 2121						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-13080	Analysis Date: 08/23/2011 2121						
Total Phosphorus as PO4-Dissolved	0.035	J	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-13162	Analysis Date: 08/24/2011 1500						
Prep Batch: 240-13067	Prep Date: 08/24/2011 0907						
Ammonia-Dissolved	0.11	J	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-13423	Analysis Date: 08/25/2011 1036						



Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name 1C001590,0003.00002/TRW OGVOUZ

Project Location Sullivan, MO

Laboratory TA - North Canton, 4101 Shuffel Drive;
North Canton, OH 44720

Project Manager John Shonfelt

Sampler(s)/Affiliation Larry Benolkin, ARCADIS

[illegible]

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/
Containers 10

Relinquished by: <u>Larry Bensch</u>	Organization: <u>ARCADIS</u>	Date: <u>8/22/2011</u>	Time: <u>1200</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>TACE</u>	Date: <u>8/23/2011</u>	Time: <u>0910</u>	Yes No N/A

Relinquished by: _____ Organization: _____ Date ____/____/____ Time _____ Seal Intact? _____
Received by: _____ Organization: _____ Date ____/____/____ Time _____ Yes No N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person

☒ Common Carrier Fed Ex 8715 87961316 ☐ Lab Courier

☐ Other

SPECIFY

SPECIFY

AG 05-12/01

Analytical Data

Client: TRW Automotive

Job Number: 240-3103-1

Client Sample ID: MW-107BH@355'(20110822)

Lab Sample ID: 240-3103-1

Date Sampled: 08/22/2011 1115

Client Matrix: Water

Date Received: 08/23/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-13808	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM8429.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/30/2011 2023			Final Weight/Volume:	5 mL
Prep Date:	08/30/2011 2023				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	0.31	J	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0		0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	18		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.30	J	0.29	1.0
Toluene	0.95	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-3103-1

Client Sample ID: MW-107BH@355'(20110822)

Lab Sample ID: 240-3103-1

Date Sampled: 08/22/2011 1115

Client Matrix: Water

Date Received: 08/23/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-13808	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM8429.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/30/2011 2023			Final Weight/Volume:	5 mL
Prep Date:	08/30/2011 2023				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.7		0.17	1.0
Trichlorofluoromethane	23		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		63 - 129
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-3103-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-3103-2TB

Client Matrix: Water

Date Sampled: 08/22/2011 0000

Date Received: 08/23/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-13808

Instrument ID: A3UX16

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXM8430.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 08/30/2011 2046

Final Weight/Volume: 5 mL

Prep Date: 08/30/2011 2046

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-3103-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-3103-2TB

Date Sampled: 08/22/2011 0000

Client Matrix: Water

Date Received: 08/23/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-13808	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM8430.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/30/2011 2046			Final Weight/Volume:	5 mL
Prep Date:	08/30/2011 2046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	95		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-3103-1

Client Sample ID: MW-107BH@355'(20110822)

Lab Sample ID: 240-3103-1

Date Sampled: 08/22/2011 1115

Client Matrix: Water

Date Received: 08/23/2011 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-13346	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-13036	Lab File ID:	I50825A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/25/2011 2327			Final Weight/Volume:	50 mL
Prep Date:	08/24/2011 0813				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	130	J B	0.67	200
Calcium	46000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J B	72	5000
Magnesium	27000	B	34	5000
Manganese	4.3	J B	0.41	15
Sodium	3300	J	590	5000
Nickel	4.7	J	3.2	40
Zinc	7.2 20 UB	J B	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	240-13519	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-13036	Lab File ID:	I50826A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1656			Final Weight/Volume:	50 mL
Prep Date:	08/24/2011 0813				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Boron	200	U	34	200

Analysis Method:	6010B	Analysis Batch:	180-13512	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-13323	Lab File ID:	Q10909A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/09/2011 1033			Final Weight/Volume:	50 mL
Prep Date:	09/08/2011 1309				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	8700		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-13790	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-13322	Lab File ID:	X10912A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2011 1546			Final Weight/Volume:	50 mL
Prep Date:	09/08/2011 1310				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	46	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-3103-1

General Chemistry

Client Sample ID: MW-107BH@355'(20110822)

Lab Sample ID: 240-3103-1

Date Sampled: 08/22/2011 1115

Client Matrix: Water

Date Received: 08/23/2011 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	2.4		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-12988	Analysis Date: 08/24/2011 0057						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-12990	Analysis Date: 08/24/2011 0057						
Fluoride-Dissolved	0.060	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-12988	Analysis Date: 08/24/2011 0057						
Nitrate as N-Dissolved	0.31		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-12990	Analysis Date: 08/24/2011 0057						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-12988	Analysis Date: 08/24/2011 0057						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-12990	Analysis Date: 08/24/2011 0057						
Sulfate-Dissolved	10		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-12988	Analysis Date: 08/24/2011 0057						
Bicarbonate Alkalinity as CaCO3	210		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-13265	Analysis Date: 08/24/2011 1723						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-13265	Analysis Date: 08/24/2011 1723						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-13309	Analysis Date: 08/25/2011 1409						
Prep Batch: 240-13253	Prep Date: 08/25/2011 1134						
Ammonia-Dissolved	0.2	UB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-13423	Analysis Date: 08/25/2011 1528						

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client ARCADIS			Project Manager John Shonfelt			Date 8/30/2011			Chain of Custody Number 101301											
Address 8725 Rosehill - Suite 350			Telephone Number (Area Code)/Fax Number (913) 913-492-0900 / (913) 492-0902			Lab Number			Page 1 of 1											
City LENEXA	State KS	Zip Code 66215	Site Contact Larry Benolkin			Lab Contact Denise Pohl			Analysis (Attach list if more space is needed)											
Project Name and Location (State) TRW OGV OVZ			Carrier/Waybill Number FedEx / 8715 8796 1279						Special Instructions/ Conditions of Receipt											
Contract/Purchase Order/Quote No. KC001590.0003.00002			Matrix			Containers & Preservatives														
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOCs (8260)	Metals (6010B)	Ammonia/Phos	Anions	Alkalinity	Silica
MW-108 BH@295' (20110829)			8/29/2011	1810		X			3	1	3	3			X	X	X	X	X	X
TRIP BLANK			8/29/2011	—		X						2			X					

Possible Hazard Identification				Sample Disposal				(A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months						
Turn Around Time Required				QC Requirements (Specify)									
<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours	<input type="checkbox"/> 7 Days	<input checked="" type="checkbox"/> 14 Days	<input type="checkbox"/> 21 Days	<input type="checkbox"/> Other _____								
1. Relinquished By Larry Benolkin				Date 8/30/2011		Time 1500		1. Received By Chr Lenz		Date 8/31/11		Time 905	
2. Relinquished By				Date		Time		2. Received By		Date		Time	
3. Relinquished By				Date		Time		3. Received By		Date		Time	

Comments

Analytical Data

Client: TRW Automotive

Job Number: 240-3375-1

Client Sample ID: MW-108BH@295'(20110829)

Lab Sample ID: 240-3375-1

Date Sampled: 08/29/2011 1810

Client Matrix: Water

Date Received: 08/31/2011 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-14969	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX4772.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/12/2011 1148			Final Weight/Volume:	5 mL
Prep Date:	09/12/2011 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.20	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.59	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.8		0.31	1.0
1,1-Dichloroethane	1.3		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.80	J	0.29	1.0
Toluene	2.9		0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-3375-1

Client Sample ID: MW-108BH@295'(20110829)

Lab Sample ID: 240-3375-1

Date Sampled: 08/29/2011 1810

Client Matrix: Water

Date Received: 08/31/2011 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-14969	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX4772.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/12/2011 1148			Final Weight/Volume:	5 mL
Prep Date:	09/12/2011 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.0		0.17	1.0
Trichlorofluoromethane	25		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-3375-1

Client Sample ID: MW-108BH@295'(20110829)

Lab Sample ID: 240-3375-1

Date Sampled: 08/29/2011 1810

Client Matrix: Water

Date Received: 08/31/2011 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-14969	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX4778.D
Dilution:	2.5			Initial Weight/Volume:	5 mL
Analysis Date:	09/12/2011 1356			Final Weight/Volume:	5 mL
Prep Date:	09/12/2011 1356				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	68 D		1.1	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
1,2-Dichloroethane-d4 (Surr)	99		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-3375-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-3375-2TB

Client Matrix: Water

Date Sampled: 08/29/2011 0000

Date Received: 08/31/2011 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-14969

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX4781.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 09/12/2011 1500

Final Weight/Volume: 5 mL

Prep Date: 09/12/2011 1500

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.56	J B	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.25	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-3375-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-3375-2TB

Date Sampled: 08/29/2011 0000

Client Matrix: Water

Date Received: 08/31/2011 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-14969	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX4781.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/12/2011 1500			Final Weight/Volume:	5 mL
Prep Date:	09/12/2011 1500				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	0.48	J B	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-3375-1

Client Sample ID: MW-108BH@295'(20110829)

Lab Sample ID: 240-3375-1

Date Sampled: 08/29/2011 1810

Client Matrix: Water

Date Received: 08/31/2011 0915

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-14431	Instrument ID:	I5
Prep Method:	3005A	Prep Batch:	240-14113	Lab File ID:	I50906A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/06/2011 1157			Final Weight/Volume:	50 mL
Prep Date:	09/02/2011 0830				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	J B	0.67	200
Boron	200	U	34	200
Calcium	67000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2100	J B	72	5000
Magnesium	37000	B	34	5000
Manganese	92		0.41	15
Sodium	6000		590	5000
Nickel	9.7	J	3.2	40
Zinc	470	B	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-15715	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-15434	Lab File ID:	Q10928C.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/28/2011 1603			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1128				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	12000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-15723	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-15428	Lab File ID:	X10928A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/28/2011 1157			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1122				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	98		0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-3375-1

General Chemistry

Client Sample ID: MW-108BH@295'(20110829)

Lab Sample ID: 240-3375-1

Date Sampled: 08/29/2011 1810

Client Matrix: Water

Date Received: 08/31/2011 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	10		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-13971	Analysis Date: 08/31/2011 1801						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-13972	Analysis Date: 08/31/2011 1801						
Fluoride-Dissolved	0.036	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-13971	Analysis Date: 08/31/2011 1801						
Nitrate as N-Dissolved	0.38		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-13972	Analysis Date: 08/31/2011 1801						
Bromide-Dissolved	0.11	J	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-13971	Analysis Date: 08/31/2011 1801						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-13972	Analysis Date: 08/31/2011 1801						
Sulfate-Dissolved	14		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-13971	Analysis Date: 08/31/2011 1801						
Bicarbonate Alkalinity as CaCO3	310		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-14296	Analysis Date: 09/02/2011 1629						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-14296	Analysis Date: 09/02/2011 1629						
Total Phosphorus as PO4-Dissolved	0.042	J	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-14118	Analysis Date: 09/01/2011 1448						
Prep Batch: 240-14043	Prep Date: 09/01/2011 0945						
Ammonia-Dissolved	0.16	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-14190	Analysis Date: 09/02/2011 0916						

Analytical Data

Client: TRW Automotive

Job Number: 240-3479-1

Client Sample ID: MW-108BH@355'(20110831)

Lab Sample ID: 240-3479-1

Date Sampled: 08/31/2011 1620

Client Matrix: Water

Date Received: 09/02/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-15130	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX4841.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2011 1733			Final Weight/Volume:	5 mL
Prep Date:	09/13/2011 1733				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.19	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.56	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.7		0.31	1.0
1,1-Dichloroethane	0.92	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.65	J	0.29	1.0
Toluene	3.0		0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-3479-1

Client Sample ID: MW-108BH@355'(20110831)

Lab Sample ID: 240-3479-1

Date Sampled: 08/31/2011 1620

Client Matrix: Water

Date Received: 09/02/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-15130	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX4841.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2011 1733			Final Weight/Volume:	5 mL
Prep Date:	09/13/2011 1733				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.3		0.17	1.0
Trichlorofluoromethane	27		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		66 - 117
Dibromofluoromethane (Surr)	102		75 - 121
1,2-Dichloroethane-d4 (Surr)	100		63 - 129
Toluene-d8 (Surr)	100		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-3479-1

Client Sample ID: MW-108BH@355'(20110831)

Lab Sample ID: 240-3479-1

Date Sampled: 08/31/2011 1620

Client Matrix: Water

Date Received: 09/02/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-15316	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX4884.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1316			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1316				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	50 D		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	95		63 - 129
Toluene-d8 (Surr)	100		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-3479-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-3479-2TB

Date Sampled: 08/31/2011 0000

Client Matrix: Water

Date Received: 09/02/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-15130

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX4842.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 09/13/2011 1754

Final Weight/Volume: 5 mL

Prep Date: 09/13/2011 1754

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.23	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-3479-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-3479-2TB

Date Sampled: 08/31/2011 0000

Client Matrix: Water

Date Received: 09/02/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-15130

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX4842.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 09/13/2011 1754

Final Weight/Volume: 5 mL

Prep Date: 09/13/2011 1754

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	102		75 - 121
1,2-Dichloroethane-d4 (Surr)	100		63 - 129
Toluene-d8 (Surr)	100		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-3479-1

Client Sample ID: MW-108BH@355'(20110831)

Lab Sample ID: 240-3479-1

Date Sampled: 08/31/2011 1620

Client Matrix: Water

Date Received: 09/02/2011 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-14591	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-14415	Lab File ID:	I60907A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/07/2011 1637			Final Weight/Volume:	50 mL
Prep Date:	09/06/2011 1043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	100	J B	0.67	200
Boron	200	U	34	200
Calcium	55000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1600	J B	72	5000
Magnesium	33000		34	5000
Manganese	39	B	0.41	15
Sodium	5000		590	5000
Nickel	5.3	J	3.2	40
Zinc	300	B	5.0	20
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-15715	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-15434	Lab File ID:	Q10928C.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/28/2011 1608			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1128				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	10000		29	1100
Lithium	50	U	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-15723	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-15428	Lab File ID:	X10928A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/28/2011 1202			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1122				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	81		0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-3479-1

General Chemistry

Client Sample ID: MW-108BH@355'(20110831)

Lab Sample ID: 240-3479-1

Date Sampled: 08/31/2011 1620

Client Matrix: Water

Date Received: 09/02/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.7		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-14417	Analysis Date: 09/06/2011 1345					
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-14418	Analysis Date: 09/06/2011 1345					
Fluoride-Dissolved	0.038	J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-14417	Analysis Date: 09/06/2011 1345					
Nitrate as N-Dissolved	0.46	J	mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-14418	Analysis Date: 09/06/2011 1345					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-14417	Analysis Date: 09/06/2011 1345					
Orthophosphate-Dissolved	0.50	U H J	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-14418	Analysis Date: 09/06/2011 1345					
Sulfate-Dissolved	13		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-14417	Analysis Date: 09/06/2011 1345					
Bicarbonate Alkalinity as CaCO3	240		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-15289	Analysis Date: 09/13/2011 1525					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-15289	Analysis Date: 09/13/2011 1525					
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-15707	Analysis Date: 09/16/2011 1236					
	Prep Batch: 240-15645	Prep Date: 09/16/2011 0918					
Ammonia-Dissolved	0.008 0.2	UB JB	mg/L	0.035	0.20	1.0	SM4500 NH3-F
	Analysis Batch: 240-14427	Analysis Date: 09/06/2011 0949					

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile, Metals, and Misc. Analyses

SDG #A0K200424

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19056R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) A0K200424 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample Delivery Group	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
A0K200424	MW-108 BA@80' 20101119	A0K200424001	Soil	11/19/2010		X				
	TB-20101119	A0K200424002	Water	11/19/2010		X				

Note:

- 1 Sample MW-108 BA@80' 20101119 was evaluated as a solid due to a high amount of sediment present in the vials.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD was not analyzed on a sample within this SDG.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

The LCS/LCSD exhibited recoveries within the control limit.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate was not analyzed on a sample within this SDG.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content		X		X	

%R Percent recovery
 RPD Relative percent difference
 %D Percent difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 17, 2013

PEER REVIEW: Dennis Capria

DATE: April 19, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

TestAmerica Knoxville ~~Naughton~~ *Naughton*
3615 Middlebrook Pike *4101 Shuttle Drive*
Knoxville, TN 37921 *NORTH CANTON OH 44720*
Phone 865-291-3000 (Main) *330-966-9789*
Phone 865-291-3031 (Receiving)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

14

Client Contact		Project Manager: <i>Denise Pohl</i>		Site Contact:		COC Record _____ of _____	
Company Name <i>ARCADIS</i>		Tel/Mobile:		Lab Contact:		Carrier:	
Address <i>8725 Rosehill St 330</i>		Analysis Turnaround Time		Analysis (Attach list if more space is needed)		COC No: <i>01793</i>	
City/State/Zip <i>Lexington, KY 66215</i>		Calendar (C) or Work Days (W) _____				Lab Use Only:	
Phone <i>913-492-0900</i>		TAT if different from Below _____				Custody Seals Intact? Y N NA	
Project Name/Number <i>TRW 06V 002</i>		<input type="checkbox"/> 2 weeks				Number of Packages: _____	
Site:		<input type="checkbox"/> 1 week				Temperature: _____ deg C	
P O # <i>KC001590.0003.00002</i>		<input type="checkbox"/> 2 days		Shipper: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Other:			
Sampled by <i>Larry Berolke</i>		<input type="checkbox"/> 1 day		Tracking Number:			
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Recorded by: _____ Date: _____
<i>MW-3 BH @ 00' 20101119</i>		<i>11/19/2010</i>	<i>0845</i>		<i>S&T</i>	<i>3</i>	Sample Specific Notes:
<i>TB-20101119</i>		<i>11</i>	<i>-</i>			<i>2</i>	
Preservation Used: <input checked="" type="checkbox"/> 1=Ice, <input checked="" type="checkbox"/> 2=HCl; 3=H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6=Na ₂ S ₂ O ₃ Other _____							
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments:							
Relinquished by: <i>Larry Berolke</i>		Company: <i>ARCADIS</i>		Date/Time: <i>11/19/10 0153</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Company:		Date/Time:		Received by:	
Relinquished by:		Company:		Date/Time:		Received by:	

RETURN WHITE COPY TO LAB WITH SAMPLES
KEEP YELLOW COPY FOR YOUR RECORDS

TAL-0046-140 (6/98)

North Canton

TRW Automotive

Client Sample ID: MW-108 BH@80' 20101119

GC/MS Volatiles

Lot-Sample #...: A0K200424-001 Work Order #...: MAC471AA Matrix.....: SO
 Date Sampled...: 11/19/10 08:45 Date Received...: 11/20/10
 Prep Date.....: 11/29/10 Analysis Date...: 11/29/10
 Prep Batch #...: 0335244
 Dilution Factor: 1 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 50 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	10	ug/kg
Bromobenzene	ND	10	ug/kg
Bromochloromethane	ND	10	ug/kg
Bromodichloromethane	ND	10	ug/kg
Bromoform	ND	10	ug/kg
Bromomethane	ND	10	ug/kg
n-Butylbenzene	ND	10	ug/kg
sec-Butylbenzene	ND	10	ug/kg
tert-Butylbenzene	ND	10	ug/kg
Carbon tetrachloride	ND	10	ug/kg
Chlorobenzene	ND	10	ug/kg
Dibromochloromethane	ND	10	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
2-Chlorotoluene	ND	10	ug/kg
4-Chlorotoluene	ND	10	ug/kg
1,2-Dibromoethane	ND	10	ug/kg
Dibromomethane	ND	10	ug/kg
1,2-Dichlorobenzene	ND	10	ug/kg
1,3-Dichlorobenzene	ND	10	ug/kg
1,4-Dichlorobenzene	ND	10	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	10	ug/kg
1,2-Dichloroethane	ND	10	ug/kg
cis-1,2-Dichloroethene	ND	10	ug/kg
trans-1,2-Dichloroethene	ND	10	ug/kg
1,1-Dichloroethene	ND	10	ug/kg
Dichlorofluoromethane	31	20	ug/kg
1,2-Dichloropropane	ND	10	ug/kg
1,3-Dichloropropane	ND	10	ug/kg
2,2-Dichloropropane	ND	10	ug/kg
cis-1,3-Dichloropropene	ND	10	ug/kg
trans-1,3-Dichloropropene	ND	10	ug/kg
1,1-Dichloropropene	ND	10	ug/kg
Ethylbenzene	ND	10	ug/kg
Hexachlorobutadiene	ND	10	ug/kg
Isopropylbenzene	ND	10	ug/kg

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108 BH@80' 20101119

GC/MS Volatiles

Lot-Sample #...: A0K200424-001 Work Order #...: MAC471AA Matrix.....: SO

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	10	ug/kg
Methylene chloride	38	10	ug/kg
Naphthalene	ND	10	ug/kg
n-Propylbenzene	ND	10	ug/kg
Styrene	ND	10	ug/kg
1,1,1,2-Tetrachloroethane	ND	10	ug/kg
1,1,2,2-Tetrachloroethane	ND	10	ug/kg
Tetrachloroethene	ND	10	ug/kg
Toluene	ND	10	ug/kg
1,2,3-Trichlorobenzene	ND	10	ug/kg
1,2,4-Trichloro- benzene	ND	10	ug/kg
1,1,1-Trichloroethane	ND	10	ug/kg
1,1,2-Trichloroethane	ND	10	ug/kg
Trichloroethene	ND	10	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	10	ug/kg
1,2,4-Trimethylbenzene	ND	10	ug/kg
1,3,5-Trimethylbenzene	ND	10	ug/kg
Vinyl chloride	ND	10	ug/kg
m-Xylene & p-Xylene	ND	20	ug/kg
o-Xylene	ND	10	ug/kg

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	105		(37 - 132)	
Toluene-d8	106		(67 - 125)	
4-Bromofluorobenzene	92		(52 - 136)	
1,2-Dichloroethane-d4	102		(58 - 123)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

TRW Automotive

Client Sample ID: TB-20101119

GC/MS Volatiles

Lot-Sample #...: A0K200424-002 Work Order #...: MAC481AA Matrix.....: WQ
 Date Sampled...: 11/19/10 Date Received...: 11/20/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0337316
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20101119

GC/MS Volatiles

Lot-Sample #...: A0K200424-002 Work Order #...: MAC481AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile, Metals, and Misc. Analyses

SDGs #A0J140579 and A0J150505

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19057R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) A0J140579 and A0J150505 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample Delivery Group	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
A0J140579	SW-LJ01-20101013-0800	A0J140579-001	Water	10/13/2010		X			X	X
	SW-LJ03-20101013-0930	A0J140579-002	Water	10/13/2010		X			X	X
	EB01-20101013	A0J140579-003	Water	10/13/2010		X			X	X
	TB01-20101013	A0J140579-004	Water	10/13/2010		X				
	SW-DUP-20101013	A0J140579-005	Water	10/13/2010	SW-LJ01-20101013-0800	X			X	X
A0J150505	SW-FC01-20101014-0930	A0J150505-001	Water	10/14/2010		X				
	SW-FC02-20101014-1030	A0J150505-002	Water	10/14/2010		X				
	SW-FC03-20101014-1045	A0J150505-003	Water	10/14/2010		X				
	SW-CH01-20101013-1600	A0J150505-004	Water	10/13/2010		X				
	SW-TC01-20101013-1630	A0J150505-005	Water	10/13/2010		X				
	TB02-20101014	A0J150505-006	Water	10/14/2010		X				

Note:

- Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.
- The matrix spike/matrix spike duplicates (MS/MSD) were performed on sample location SW-LJ03-20101013-0930.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited recoveries and RPD within the control limit.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SW-FC01-20101014-0930 SW-FC02-20101014-1030 SW-FC03-20101014-1045 TB02-20101014	trans-1,2-Dichloroethene	<LL but >10%	AC
	trans-1,3-Dichloropropene	AC	>UL

AC = Acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SW-LJ01-20101013-0800/ SW-DUP-20101013	Trichloroethene	5.1	4.7	AC

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate(LCSD)		X	X		
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 2320B, 9056, SM4500 NH₃, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.

- N Spiked sample recovery is not within control limits.

- * Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

- UB Analyte considered non-detect at the listed value due to associated blank contamination.

- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS/MSD analysis exhibited acceptable recoveries and RPD between recoveries.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SW-LJ01-20101013-0800/ SW-DUP-20101013	Calcium	38900	40500	4.0%
	Magnesium	21800	22700	4.0%
	Sodium	13200	13800	4.4%
	Strontium	58.4	62.1	6.1%
	Silica	10000	10200	2.0%

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

A serial dilution was not analyzed on a sample within this data set.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks					X	
B. Method Blanks		X	X			
C. Equipment/Field Blanks					X	
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
ICP Serial Dilution					X	
Reporting Limit Verification		X		X		
Raw Data		X		X		

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Ammonia-N by SM4500 NH3	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C±2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
SW-LJ03-20101013-0930	Orthophosphate	150%	149%

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to the parent sample result associated with this SDG.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

An MS/MSD was performed in replacement of the laboratory duplicate. All analytes associated with MS/MSD recoveries exhibited RPD within control limits.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SW-LJ01-20101013-0800/ SW-DUP-20101013	Bicarbonate alkalinity	188	178	5.5%
	Chloride	15.9	14.4	9.9%
	Nitrate	1.6	1.6	0.0%
	Sulfate	12.9	12.8	0.8%

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

All LCS recoveries were within control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 1677	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate(MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R - percent recovery, RPD - relative percent difference,
 %D – difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 17, 2013

PEER REVIEW: Dennis Capria

DATE: April 19, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

TestAmerica Laboratory location:

Regulatory program:

☐ DW☐ NPDES☐ RCRA☐ Other

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Client Project Manager:		Site Contact:		Lab Contact:		COC No:											
Company Name: ARCADIS		John Scharfett		Mike Cobb		DENISE FOHL		1 of 1 COCs											
Address: 8725 Rose Hill Suite 350		Telephone: 913 992 0900		Telephone: 215 539 3619		Telephone: 330 966 9789													
City/State/Zip: Lenexa, KS 66215		Email: John.Scharfett@arcadis-us.com		Analysis Turnaround Time TAT if different from below <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Analyses Volatiles * Metals * Silica * NH4 T-Phos * Ions * Carb/bicarb		Sample Specific Notes / Special Instructions:											
Phone: 913 492 0900																			
Project Name: TRW Oak Grove Village		Method of Shipment/Carrier: FEDEX																	
Project Number: KL001590.0003.00004		Shipping/Tracking No:																	
PO#																			
Sample Identification		Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other				
SW-LJ01-20101013-0800	10/13/10	0800							1	2	3			3			G	X	X
SW-LJ03-20101013-0930	10/13/10	0930							3	6	9			9			G	X	X
EB01-20101013	10/13/10	1230							1	2	3			3			G	X	X
TB01-20101013	10/13/10	1230															G	X	
SW-DUP-20101013	10/13/10	-							1	2	3			3			G	X	X
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Special Instructions/QC Requirements & Comments: * samples field-filtered																			
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received in Laboratory by:	
[Signature]		ARCADIS		10/13/10 1400														Derry Burr	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received in Laboratory by:	
																		TA	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received in Laboratory by:	
																		10/14/10 915	

TRW Automotive

Client Sample ID: SW-LJ01-20101013-0800

GC/MS Volatiles

Lot-Sample #...: A0J140579-001 Work Order #...: L8HAH1AA Matrix.....: WS
 Date Sampled...: 10/13/10 08:00 Date Received...: 10/14/10
 Prep Date.....: 10/25/10 Analysis Date...: 10/25/10
 Prep Batch #...: 0300328
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-LJ01-20101013-0800

GC/MS Volatiles

Lot-Sample #...: A0J140579-001 Work Order #...: L8HAH1AA Matrix.....: WS

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	5.1	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	85		(75 - 121)	
1,2-Dichloroethane-d4	91		(63 - 129)	
Toluene-d8	93		(74 - 115)	
4-Bromofluorobenzene	93		(66 - 117)	

TRW Automotive

Client Sample ID: SW-LJ03-20101013-0930

GC/MS Volatiles

Lot-Sample #...: A0J140579-002 Work Order #...: L8HCL1A1 Matrix.....: WS
 Date Sampled...: 10/13/10 09:30 Date Received...: 10/14/10
 Prep Date.....: 10/25/10 Analysis Date...: 10/25/10
 Prep Batch #...: 0300328
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-LJ03-20101013-0930

GC/MS Volatiles

Lot-Sample #...: A0J140579-002 Work Order #...: L8HCL1A1 Matrix.....: WS

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	5.0	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	82	(75 - 121)
1,2-Dichloroethane-d4	86	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	90	(66 - 117)

TRW Automotive

Client Sample ID: EB01-20101013

GC/MS Volatiles

Lot-Sample #...: A0J140579-003 Work Order #...: L8HCW1AJ Matrix.....: WQ
 Date Sampled...: 10/13/10 12:30 Date Received...: 10/14/10
 Prep Date.....: 10/25/10 Analysis Date...: 10/25/10
 Prep Batch #...: 0300328
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: EB01-20101013

GC/MS Volatiles

Lot-Sample #...: A0J140579-003 Work Order #...: L8HCW1AJ Matrix.....: WQ

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	84	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	91	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)

TRW Automotive

Client Sample ID: TB01-20101013

GC/MS Volatiles

Lot-Sample #...: A0J140579-004 Work Order #...: L8HC61AA Matrix.....: WQ
 Date Sampled...: 10/13/10 12:30 Date Received...: 10/14/10
 Prep Date.....: 10/25/10 Analysis Date...: 10/25/10
 Prep Batch #...: 0300328
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB01-20101013

GC/MS Volatiles

Lot-Sample #...: A0J140579-004 Work Order #...: L8HC61AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	83	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	91	(66 - 117)

TRW Automotive

Client Sample ID: SW-DUP-20101013

GC/MS Volatiles

Lot-Sample #...: A0J140579-005 Work Order #...: L8HC91AJ Matrix.....: WS
 Date Sampled...: 10/13/10 Date Received...: 10/14/10
 Prep Date.....: 10/25/10 Analysis Date...: 10/25/10
 Prep Batch #...: 0300328
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-DUP-20101013

GC/MS Volatiles

Lot-Sample #...: A0J140579-005 Work Order #...: L8HC91AJ Matrix.....: WS

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	4.7	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	81		(75 - 121)	
1,2-Dichloroethane-d4	85		(63 - 129)	
Toluene-d8	89		(74 - 115)	
4-Bromofluorobenzene	89		(66 - 117)	

TRW Automotive

Client Sample ID: SW-LJ01-20101013-0800

DISSOLVED Metals

Lot-Sample #...: A0J140579-001

Matrix.....: WS

Date Sampled...: 10/13/10 08:00 Date Received...: 10/14/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0288016						
Barium	ND	200	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AE
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AF
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Calcium	38900	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AG
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AC
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AH
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Potassium	ND E	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AJ
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Magnesium	21800	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AK
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AL
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Sodium	13200	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AM
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AN
		Dilution Factor: 1		Analysis Time...: 15:50	Analyst ID.....: 001637	
		Instrument ID...: I5				

(Continued on next page)

TRW Automotive

Client Sample ID: SW-LJ01-20101013-0800

DISSOLVED Metals

Lot-Sample #...: A0J140579-001

Matrix.....: WS

REPORTING					PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AD
		Dilution Factor: 1		Analysis Time..: 15:50	Analyst ID.....: 001637	
		Instrument ID..: I5				
Strontium	58.4	10.0	ug/L	SW846 6020	10/15-10/19/10	L8HAH1A5
		Dilution Factor: 1		Analysis Time..: 18:38	Analyst ID.....: 000079	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	10/15-10/18/10	L8HAH1AP
		Dilution Factor: 1		Analysis Time..: 15:50	Analyst ID.....: 001637	
		Instrument ID..: I5				
Prep Batch #...: 0292356						
Lithium	ND	50.0	ug/L	SW846 6010B	10/19-10/25/10	L8HAH1AQ
		Dilution Factor: 1		Analysis Time..: 18:36	Analyst ID.....: 22952	
		Instrument ID..: 6500ICP				
Silica	10000	1070	ug/L	SW846 6010B	10/19-10/24/10	L8HAH1AR
		Dilution Factor: 1		Analysis Time..: 20:04	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP				

NOTE(S):

E Matrix interference.

TRW Automotive

Client Sample ID: SW-LJ03-20101013-0930

DISSOLVED Metals

Lot-Sample #...: A0J140579-002

Matrix.....: WS

Date Sampled...: 10/13/10 09:30 Date Received...: 10/14/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0288016						
Barium	ND	200	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1CA
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Boron	ND	200	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1CE
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Calcium	43100	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1CH
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1A4
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Iron	ND	100	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1CL
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Potassium	ND	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1CP
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Magnesium	24500	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1CT
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1CW
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Sodium	13700	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1C1
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1C4
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				

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TRW Automotive

Client Sample ID: SW-LJ03-20101013-0930

DISSOLVED Metals

Lot-Sample #...: A0J140579-002

Matrix.....: WS

		REPORTING			PREPARATION- WORK	
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1A7
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Strontium	62.1	10.0	ug/L	SW846 6020	10/15-10/19/10	L8HCL1AT
		Dilution Factor: 1		Analysis Time..: 18:43	Analyst ID.....: 000079	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCL1C7
		Dilution Factor: 1		Analysis Time..: 16:01	Analyst ID.....: 001637	
		Instrument ID..: I5				
Prep Batch #...: 0292356						
Lithium	ND	50.0	ug/L	SW846 6010B	10/19-10/25/10	L8HCL1DA
		Dilution Factor: 1		Analysis Time..: 18:46	Analyst ID.....: 22952	
		Instrument ID..: 6500ICP				
Silica	10300	1070	ug/L	SW846 6010B	10/19-10/24/10	L8HCL1DE
		Dilution Factor: 1		Analysis Time..: 20:15	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP				

TRW Automotive

Client Sample ID: EB01-20101013

DISSOLVED Metals

Lot-Sample #...: A0J140579-003

Matrix.....: WQ

Date Sampled...: 10/13/10 12:30 Date Received...: 10/14/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0288016						
Barium	ND	200	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AM
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AN
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Calcium	ND	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AP
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AK
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AQ
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Potassium	ND	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AR
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Magnesium	ND	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AT
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AU
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Sodium	ND	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AV
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AW
		Dilution Factor: 1		Analysis Time...: 16:18	Analyst ID.....: 001637	
		Instrument ID...: I5				

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TRW Automotive

Client Sample ID: EB01-20101013

DISSOLVED Metals

Lot-Sample #...: A0J140579-003

Matrix.....: WQ

		REPORTING			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AL
		Dilution Factor: 1		Analysis Time..: 16:18	Analyst ID.....: 001637	
		Instrument ID..: I5				
Strontium	ND	10.0	ug/L	SW846 6020	10/15-10/19/10	L8HCW1AG
		Dilution Factor: 1		Analysis Time..: 19:14	Analyst ID.....: 000079	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	10/15-10/18/10	L8HCW1AX
		Dilution Factor: 1		Analysis Time..: 16:18	Analyst ID.....: 001637	
		Instrument ID..: I5				
Prep Batch #...: 0292356						
Lithium	ND	50.0	ug/L	SW846 6010B	10/19-10/25/10	L8HCW1A0
		Dilution Factor: 1		Analysis Time..: 19:19	Analyst ID.....: 22952	
		Instrument ID..: 6500ICP				
Silica	ND	1070	ug/L	SW846 6010B	10/19-10/24/10	L8HCW1A1
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP				

TRW Automotive

Client Sample ID: SW-DUP-20101013

DISSOLVED Metals

Lot-Sample #...: A0J140579-005

Matrix.....: WS

Date Sampled...: 10/13/10

Date Received...: 10/14/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0288016						
Barium	ND	200	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AM
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Boron	ND	200	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AN
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Calcium	40500	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AP
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Chromium	ND	5.0	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AK
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Iron	ND	100	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AQ
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Potassium	ND	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AR
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Magnesium	22700	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AT
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Manganese	ND	15.0	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AU
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Sodium	13800	5000	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AV
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Nickel	ND	40.0	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AW
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				

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TRW Automotive

Client Sample ID: SW-DUP-20101013

DISSOLVED Metals

Lot-Sample #...: A0J140579-005

Matrix.....: WS

REPORTING					PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Lead	ND	3.0	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AL
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Strontium	62.1	10.0	ug/L	SW846 6020	10/15-10/19/10	L8HC91AG
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 000079	
		Instrument ID..: I8				
Zinc	ND	20.0	ug/L	SW846 6010B	10/15-10/18/10	L8HC91AX
		Dilution Factor: 1		Analysis Time..: 16:24	Analyst ID.....: 001637	
		Instrument ID..: I5				
Prep Batch #...: 0292356						
Lithium	ND	50.0	ug/L	SW846 6010B	10/19-10/25/10	L8HC91A0
		Dilution Factor: 1		Analysis Time..: 18:41	Analyst ID.....: 22952	
		Instrument ID..: 6500ICP				
Silica	10200	1070	ug/L	SW846 6010B	10/19-10/24/10	L8HC91A1
		Dilution Factor: 1		Analysis Time..: 20:10	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP				

TRW Automotive

Client Sample ID: SW-LJ01-20101013-0800

General Chemistry

Lot-Sample #...: A0J140579-001 Work Order #...: L8HAH Matrix.....: WS
Date Sampled...: 10/13/10 08:00 Date Received...: 10/14/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	188	5.0	mg/L	SM20 2320B	10/26/10	0299205
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM20 2320B	10/26/10	0299208
		Dilution Factor: 1				
Dissolved ortho-Phosphate	ND	0.50	mg/L	SW846 9056A	10/14/10	0288344
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	10/25/10	0298289
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	10/14/10	0288341
		Dilution Factor: 1				
Dissolved Chloride	15.9	1.0	mg/L	SW846 9056A	10/14/10	0288339
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	10/14/10	0288335
		Dilution Factor: 1				
Dissolved Nitrate as N	1.6	0.10	mg/L	SW846 9056A	10/14/10	0288343
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	10/14/10	0288340
		Dilution Factor: 1				
Dissolved Sulfate	12.9	1.0	mg/L	SW846 9056A	10/14/10	0288347
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	10/20/10	0293301
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: SW-LJ03-20101013-0930

General Chemistry

Lot-Sample #...: A0J140579-002 Work Order #...: L8HCL Matrix.....: WS
Date Sampled...: 10/13/10 09:30 Date Received...: 10/14/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	179	5.0	mg/L	SM20 2320B	10/26/10	0299205
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM20 2320B	10/26/10	0299208
		Dilution Factor: 1				
Dissolved ortho-Phosphate	1.6	J 0.50	mg/L	SW846 9056A	10/15/10	0292161
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	10/25/10	0298289
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	10/18/10	0292266
		Dilution Factor: 1				
Dissolved Chloride	13.5	5.0	mg/L	SW846 9056A	10/26/10	0300146
		Dilution Factor: 5				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	10/15/10	0292143
		Dilution Factor: 1				
Dissolved Nitrate as N	1.5	0.10	mg/L	SW846 9056A	10/15/10	0292158
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	10/14/10	0288340
		Dilution Factor: 1				
Dissolved Sulfate	12.3	1.0	mg/L	SW846 9056A	10/15/10	0292163
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	10/20/10	0293301
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: EB01-20101013

General Chemistry

Lot-Sample #...: A0J140579-003 Work Order #...: L8HCW Matrix.....: WQ
 Date Sampled...: 10/13/10 12:30 Date Received...: 10/14/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	ND	5.0	mg/L	SM20 2320B	10/26/10	0299205
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM20 2320B	10/26/10	0299208
		Dilution Factor: 1				
Dissolved ortho-Phosphate	ND	0.50	mg/L	SW846 9056A	10/14/10	0288344
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	10/25/10	0298289
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	10/14/10	0288341
		Dilution Factor: 1				
Dissolved Chloride	ND	1.0	mg/L	SW846 9056A	10/14/10	0288339
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	10/14/10	0288335
		Dilution Factor: 1				
Dissolved Nitrate as N	ND	0.10	mg/L	SW846 9056A	10/14/10	0288343
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	10/14/10	0288340
		Dilution Factor: 1				
Dissolved Sulfate	ND	1.0	mg/L	SW846 9056A	10/14/10	0288347
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	10/26/10	0299299
		Dilution Factor: 1				

TRW Automotive

Client Sample ID: SW-DUP-20101013

General Chemistry

Lot-Sample #...: A0J140579-005

Work Order #...: L8HC9

Matrix.....: WS

Date Sampled...: 10/13/10

Date Received...: 10/14/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	178	5.0	mg/L	SM20 2320B	10/26/10	0299205
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM20 2320B	10/26/10	0299208
		Dilution Factor: 1				
Dissolved ortho-Phosphate	ND	0.50	mg/L	SW846 9056A	10/14/10	0288344
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	10/25/10	0298289
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	10/14/10	0288341
		Dilution Factor: 1				
Dissolved Chloride	14.4	1.0	mg/L	SW846 9056A	10/26/10	0300146
		Dilution Factor: 1				
Dissolved Fluoride	ND	1.0	mg/L	SW846 9056A	10/14/10	0288335
		Dilution Factor: 1				
Dissolved Nitrate as N	1.6	0.10	mg/L	SW846 9056A	10/14/10	0288343
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	10/14/10	0288340
		Dilution Factor: 1				
Dissolved Sulfate	12.8	1.0	mg/L	SW846 9056A	10/14/10	0288347
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	10/26/10	0299299
		Dilution Factor: 1				

Chain of Custody Record

TestAmerica 14

TestAmerica Laboratory location:

Regulatory program:

☐ DW☐ NPDES☐ RCRA☐ Other

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Client Project Manager:		Site Contact:		Lab Contact:		COC No:															
Company Name: Arcadis		John Shanfelt		Matt Sugar		Denise Pohl																	
Address: 8725 Rosehill		Telephone: 913 492 0900		Telephone: 816 217 9803		Telephone: 330 497 4396		_____ of _____ COCs															
City/State/Zip: Lenexa KS 66215		Email: John.shanfelt@Arcadis-us.com		Analysis Turnaround Time (in 8-10 days) TAT if different from below <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Analyses VOCs Metals Arsenic, Cd, Cr, Pb, Se, Si, V, Zn Chloride, Fluoride Boron, Nitrate		Sample Specific Notes / Special Instructions:															
Phone: 913 442 0900																							
Project Name: TRW Oak Grove Village		Method of Shipment/Carrier: Fed-ex																					
Project Number: KCC01590 0003.00003		Shipping/Tracking No:																					
PO#																							
Sample Identification		Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	VOCs	Metals	Arsenic, Cd, Cr, Pb, Se, Si, V, Zn	Chloride, Fluoride	Boron, Nitrate			
SW-FC01-20101014-0930	10/14/10	0930	X								3					X							
SW-FC02-20101014-1030	10/14/10	1030	X								3					X							
SW-FC03-20101014-1045	10/14/10	1045	X								3					X							
SW-CH01-20101013-1600	10/13/10	1600	X								3					X							
SW-TC01-20101013-1630	10/13/10	1630	X								3					X							
TB02-20101014	10/14/10	—	X								2					X							
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																					
Special Instructions/QC Requirements & Comments:																							
Relinquished by: Matt Sugar		Company: Arcadis		Date/Time: 10-14-10 1715		Received by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received in Laboratory by: [Signature]		Company: TAM		Date/Time: 10-15-10 0930	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	

TRW Automotive

Client Sample ID: SW-FC01-20101014-0930

GC/MS Volatiles

Lot-Sample #...: A0J150505-001 Work Order #...: L8JVL1AA Matrix.....: WG
 Date Sampled...: 10/14/10 09:30 Date Received...: 10/15/10
 Prep Date.....: 10/26/10 Analysis Date...: 10/26/10
 Prep Batch #...: 0300320
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-FC01-20101014-0930

GC/MS Volatiles

Lot-Sample #...: A0J150505-001 Work Order #...: L8JVL1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	84	(75 - 121)
1,2-Dichloroethane-d4	89	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

TRW Automotive

Client Sample ID: SW-FC02-20101014-1030

GC/MS Volatiles

Lot-Sample #...: A0J150505-002 Work Order #...: L8JV31AA Matrix.....: WG
 Date Sampled...: 10/14/10 10:30 Date Received...: 10/15/10
 Prep Date.....: 10/26/10 Analysis Date...: 10/26/10
 Prep Batch #...: 0300320
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-FC02-20101014-1030

GC/MS Volatiles

Lot-Sample #...: A0J150505-002 Work Order #...: L8JV31AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	86	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	87	(74 - 115)
4-Bromofluorobenzene	89	(66 - 117)

TRW Automotive

Client Sample ID: SW-FC03-20101014-1045

GC/MS Volatiles

Lot-Sample #...: A0J150505-003 Work Order #...: L8JV61AA Matrix.....: WG
 Date Sampled...: 10/14/10 10:45 Date Received...: 10/15/10
 Prep Date.....: 10/26/10 Analysis Date...: 10/26/10
 Prep Batch #...: 0300320
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-FC03-20101014-1045

GC/MS Volatiles

Lot-Sample #...: A0J150505-003 Work Order #...: L8JV61AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	85	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	87	(66 - 117)

TRW Automotive

Client Sample ID: SW-CH01-20101013-1600

GC/MS Volatiles

Lot-Sample #...: A0J150505-004 Work Order #...: L8JWA1AA Matrix.....: WG
 Date Sampled...: 10/13/10 16:00 Date Received...: 10/15/10
 Prep Date.....: 10/25/10 Analysis Date...: 10/25/10
 Prep Batch #...: 0300328
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-CH01-20101013-1600

GC/MS Volatiles

Lot-Sample #...: A0J150505-004 Work Order #...: L8JWA1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	82	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	87	(66 - 117)

TRW Automotive

Client Sample ID: SW-TC01-20101013-1630

GC/MS Volatiles

Lot-Sample #...: A0J150505-005 Work Order #...: L8JWH1AA Matrix.....: WG
 Date Sampled...: 10/13/10 16:30 Date Received...: 10/15/10
 Prep Date.....: 10/25/10 Analysis Date...: 10/25/10
 Prep Batch #...: 0300328
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: SW-TC01-20101013-1630

GC/MS Volatiles

Lot-Sample #...: A0J150505-005 Work Order #...: L8JWH1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	84	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	90	(66 - 117)

TRW Automotive

Client Sample ID: TB02-20101014

GC/MS Volatiles

Lot-Sample #...: A0J150505-006 Work Order #...: L8JWL1AA Matrix.....: WQ
 Date Sampled...: 10/14/10 Date Received...: 10/15/10
 Prep Date.....: 10/26/10 Analysis Date...: 10/26/10
 Prep Batch #...: 0300320
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB02-20101014

GC/MS Volatiles

Lot-Sample #...: A0J150505-006 Work Order #...: L8JWL1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	85	(75 - 121)
1,2-Dichloroethane-d4	89	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

TRW

**Oak Grove Village Well Superfund
Site - OU2**

Data Review

SULLIVAN, MISSOURI

Volatile, Metals, and Misc. Analyses

SDGs #A0K160507, A0K190517, A0L030505,
A0L170577, A1C170433, and A1D270430

Analyses Performed By:
TestAmerica Laboratories
North Canton, Ohio

Report: # 19063R
Review Level: Tier II
Project: KC001590.0003.00008

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) A0K160507, A0K190517, A0L030505, A0L170577, A1C170433, and A1D270430 for samples collected in association with the Oak Grove Village Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample Delivery Group	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
A0K160507	MW-108 BH@26'-20101112	A0K160507001	Water	11/12/2010		X				
	TB-20101112	A0K160507002	Water	11/12/2010		X				
A0K190517	MW-108 POTABLE-20101118	A0K190517001	Water	11/18/2010		X				
	TB-20101118	A0K190517002	Water	11/18/2010		X				
A0L030505	MW-108 BH@141'-20101201	A0L030505001	Water	12/1/2010		X				
	TB-20101201	A0L030505002	Water	12/1/2010		X				
A0L170577	MW-108BH@185'20101215	A0L170577001	Water	12/15/2010		X				
	TB-20101215	A0L170577002	Water	12/15/2010		X				
A1C170433	MW108(187-235)(20110316)	A1C170433001	Water	3/16/2011		X			X	X
	TB-01(20110316)	A1C170433002	Water	3/16/2011		X				
A1D270430	MW-107BH@16'(20110426)	A1D270430001	Water	4/26/2011		X				

Note:

- 1 Miscellaneous analyses include alkalinity, orthophosphate, ammonia, bromide, chloride, sulfate, nitrite, nitrate, fluoride, and total phosphorus.
- 2 The matrix spike/matrix spike duplicates (MS/MSD) were performed on sample location MW108(187-235)(20110316) for metals and miscellaneous.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW108(187-235)(20110316)	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	Detected sample results <RL and <BAL	"UB" at the RL
MW-107BH@16'(20110426)	Naphthalene		

RL Reporting limit

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD was not analyzed on a sample within this data set.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
MW-108 POTABLE-20101118 TB-20101118	Bromomethane	<LL but >10%	AC
MW-108 BH@141'-20101201	Bromodichloromethane	>UL	-
	1,2-Dichloroethane	>UL	-

AC = Acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices is applied to the RPD between the parent

sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate was not analyzed on a sample within this data set.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
 RPD Relative percent difference
 %D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010, 2320B, 9056, SM4500 NH₃, and SM4500 P-E. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.

- N Spiked sample recovery is not within control limits.

- * Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

- UB Analyte considered non-detect at the listed value due to associated blank contamination.

- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. Therefore, sample results greater than the BAL resulted in the removal of the laboratory qualifier (J). No other qualification of the sample results was required.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS/MSD analysis exhibited acceptable recoveries and RPD between recoveries.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times

the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not analyzed on a sample within this data set.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution was not performed on a sample location within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)						
Tier II Validation						
Holding Times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Instrument Blanks					X	
B. Method Blanks		X	X			
C. Equipment/Field Blanks					X	
Laboratory Control Sample (LCS)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
ICP Serial Dilution					X	
Reporting Limit Verification		X		X		
Raw Data		X		X		

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Ammonia-N by SM4500 NH3	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
SW-846 9056 (Chloride, Fluoride, Sulfate, Bromide)	Water	28 days from collection to analysis	Cool to 4°C±2°C.
SW-846 9056 (Nitrate, Nitrite, Orthophosphate)	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Total Phosphorus by SM4500 P-E	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
MW108(187-235)(20110316)	Orthophosphate	217%	-
	Chloride	131%	-

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to the parent sample result associated with this SDG.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

An MS/MSD was performed in replacement of the laboratory duplicate. All analytes associated with MS/MSD recoveries exhibited RPD within control limits.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 40% for water matrices and 70% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not analyzed on a sample within this data set.

5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

All LCS recoveries were within control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 1677	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R - percent recovery, RPD - relative percent difference,
 %D – difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: April 18, 2013

PEER REVIEW: Dennis Capria

DATE: April 19, 2013

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

TestAmerica Knoxville - N. Canton
5015 Middlebrook Pike
Knoxville, TN 37921
Phone 865-291-3000 (Main)
Phone 865-291-3031 (Receiving)
4101 Shuffert Drive
North Canton, OH 44720
330-966-9789

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

14

Client Contact		Project Manager: Denise Pohl		Site Contact:		COC Record _____ of _____	
Company Name: ARCADIS		Tel/Mobile:		Lab Contact:		Carrier:	
Address: 8725 Rosehill St 350		Analysis Turnaround Time		Analysis (Attach list if more space is needed)		COC No: 01788	
City/State/Zip: LENEXA, KS 66215		Calendar (C) or Work Days (W)		Field Filtered Sample Vocs by 8260B		Lab Use Only:	
Phone: (913) 492-0900		TAT if different from Below _____				Custody Seals Intact? Y N NA	
Project Name/Number: K0001590-0003-00002		<input type="checkbox"/> 2 weeks				Number of Packages: _____	
Site: TRW CGV		<input type="checkbox"/> 1 week				Temperature: _____ deg C	
P O #		<input type="checkbox"/> 2 days				Shipper: ___ FedEx ___ UPS ___ Other: _____	
Sampled by: Larry Benolkin		<input type="checkbox"/> 1 day				Tracking Number: _____	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Recorded by: _____ Date: _____
MW-3 BH@26' - 20101112	11/12/2010	0800	Grab	Water	3	X	Decant samples before analysis
TB-20101112	"	—	"	"	2	X	
Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4= HNO ₃ ; 5= NaOH; 6= Na ₂ S ₂ O ₃ Other 182							
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Special Instructions/QC Requirements & Comments: Samples have heavy sediment - allow settling time							
Relinquished by: Larry Benolkin	Company: ARCADIS	Date/Time: 11/12/10 1700	Received by: Larry Benolkin	Date/Time: 11/13/10 930			
Relinquished by:	Company:	Date/Time:	Received by:	Date/Time:			
Relinquished by:	Company:	Date/Time:	Received by:	Date/Time:			

RETURN WHITE COPY TO LAB WITH SAMPLES
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TAL-0046-140 (08)

North Canton

TRW Automotive

Client Sample ID: MW-108 BH@26' 20101112

GC/MS Volatiles

Lot-Sample #...: A0K160507-001 Work Order #...: L95C61AA Matrix.....: SO
 Date Sampled...: 11/12/10 08:00 Date Received...: 11/13/10
 Prep Date.....: 11/26/10 Analysis Date...: 11/26/10
 Prep Batch #...: 0333325
 Dilution Factor: 18.18 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	18	ug/L
Bromobenzene	ND	18	ug/L
Bromochloromethane	ND	18	ug/L
Bromodichloromethane	ND	18	ug/L
Bromoform	ND	18	ug/L
Bromomethane	ND	18	ug/L
n-Butylbenzene	ND	18	ug/L
sec-Butylbenzene	ND	18	ug/L
tert-Butylbenzene	ND	18	ug/L
Carbon tetrachloride	ND	18	ug/L
Chlorobenzene	ND	18	ug/L
Dibromochloromethane	ND	18	ug/L
Chloroethane	ND	18	ug/L
Chloroform	ND	18	ug/L
Chloromethane	ND	18	ug/L
2-Chlorotoluene	ND	18	ug/L
4-Chlorotoluene	ND	18	ug/L
1,2-Dibromoethane	ND	18	ug/L
Dibromomethane	ND	18	ug/L
1,2-Dichlorobenzene	ND	18	ug/L
1,3-Dichlorobenzene	ND	18	ug/L
1,4-Dichlorobenzene	ND	18	ug/L
Dichlorodifluoromethane	ND	18	ug/L
1,1-Dichloroethane	ND	18	ug/L
1,2-Dichloroethane	ND	18	ug/L
cis-1,2-Dichloroethene	ND	18	ug/L
trans-1,2-Dichloroethene	ND	18	ug/L
1,1-Dichloroethene	ND	18	ug/L
Dichlorofluoromethane	ND	36	ug/L
1,2-Dichloropropane	ND	18	ug/L
1,3-Dichloropropane	ND	18	ug/L
2,2-Dichloropropane	ND	18	ug/L
cis-1,3-Dichloropropene	ND	18	ug/L
trans-1,3-Dichloropropene	ND	18	ug/L
1,1-Dichloropropene	ND	18	ug/L
Ethylbenzene	20	18	ug/L
Hexachlorobutadiene	ND	18	ug/L
Isopropylbenzene	ND	18	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108 BH@26' 20101112

GC/MS Volatiles

Lot-Sample #...: A0K160507-001 Work Order #...: L95C61AA Matrix.....: SO

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	18	ug/L
Methylene chloride	43	18	ug/L
Naphthalene	ND	18	ug/L
n-Propylbenzene	ND	18	ug/L
Styrene	ND	18	ug/L
1,1,1,2-Tetrachloroethane	ND	18	ug/L
1,1,2,2-Tetrachloroethane	ND	18	ug/L
Tetrachloroethene	ND	18	ug/L
Toluene	580	18	ug/L
1,2,3-Trichlorobenzene	ND	18	ug/L
1,2,4-Trichloro- benzene	ND	18	ug/L
1,1,1-Trichloroethane	ND	18	ug/L
1,1,2-Trichloroethane	ND	18	ug/L
Trichloroethene	ND	18	ug/L
Trichlorofluoromethane	ND	18	ug/L
1,2,3-Trichloropropane	ND	18	ug/L
1,2,4-Trimethylbenzene	ND	18	ug/L
1,3,5-Trimethylbenzene	ND	18	ug/L
Vinyl chloride	ND	18	ug/L
m-Xylene & p-Xylene	72	36	ug/L
o-Xylene	20	18	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	85	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	95	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)

TRW Automotive

Client Sample ID: TB-20101112

GC/MS Volatiles

Lot-Sample #...: A0K160507-002 Work Order #...: L95DT1AA Matrix.....: WQ
 Date Sampled...: 11/12/10 Date Received...: 11/13/10
 Prep Date.....: 11/26/10 Analysis Date...: 11/26/10
 Prep Batch #...: 0333325
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20101112

GC/MS Volatiles

Lot-Sample #...: A0K160507-002 Work Order #...: L95DT1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	84	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

TestAmerica Knoxville - *North Canton, OH*
 5015 Middlebrook Pike *4101 Shuffel Drive*
 Knoxville, TN 37921 *North Canton, OH 44720*
 Phone 865-291-3006 (Main) *330-966-4789*
 Phone 865-291-3031 (Receiving)

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TAL-0046-140 7/2/08

North Canton

TRW Automotive

Client Sample ID: MW-108 POTABLE-20101118

GC/MS Volatiles

Lot-Sample #...: A0K190517-001 Work Order #...: MAAN81AA Matrix.....: WG
 Date Sampled...: 11/18/10 13:56 Date Received...: 11/19/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0336168
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND J	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: MW-108 POTABLE-20101118

GC/MS Volatiles

Lot-Sample #...: A0K190517-001 Work Order #...: MAAN81AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	
	RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	82	(63 - 129)
Toluene-d8	89	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)

TRW Automotive

Client Sample ID: TB-20101118

GC/MS Volatiles

Lot-Sample #...: A0K190517-002 Work Order #...: MAAN91AA Matrix.....: WQ
 Date Sampled...: 11/18/10 Date Received...: 11/19/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0336168
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND J	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB-20101118

GC/MS Volatiles

Lot-Sample #...: A0K190517-002 Work Order #...: MAAN91AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)

TRW Automotive

Client Sample ID: MW-108 BH@141'-20101201

GC/MS Volatiles

Lot-Sample #...: A0L030505-001 Work Order #...: MAT2C1AA Matrix.....: WG
 Date Sampled...: 12/01/10 12:20 Date Received...: 12/02/10
 Prep Date.....: 12/07/10 Analysis Date...: 12/07/10
 Prep Batch #...: 0342122
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: MW-108 BH@141'-20101201

GC/MS Volatiles

Lot-Sample #...: A0L030505-001 Work Order #...: MAT2C1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(75 - 121)
1,2-Dichloroethane-d4	113	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	87	(66 - 117)

TRW Automotive

Client Sample ID: TB-20101201

GC/MS Volatiles

Lot-Sample #...: A0L030505-002 Work Order #...: MAT2J1AA Matrix.....: WQ
 Date Sampled...: 12/01/10 Date Received...: 12/02/10
 Prep Date.....: 12/09/10 Analysis Date...: 12/09/10
 Prep Batch #...: 0344198
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20101201

GC/MS Volatiles

Lot-Sample #...: A0L030505-002 Work Order #...: MAT2J1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	111	(75 - 121)
1,2-Dichloroethane-d4	103	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	79	(66 - 117)

TestAmerica Knoxville *North Canton*

5815 Middlebrook Pike

~~Knoxville, TN 37921~~

Phone ~~865-291-3000~~ (Main)

Phone ~~865-291-3681~~ (Receiving)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

14

Client Contact		Project Manager: Denise Pohl		Site Contact:		COC Record _____ of _____	
Company Name: ARCADIS		Tel/Mobile:		Lab Contact:		Carrier:	
Address: 8725 Rosehill-St 350		Analysis Turnaround Time		Analysis (Attach list if more space is needed)		COC No: 01789	
City/State/Zip: LENEXA/KS/66219		Calendar (C) or Work Days (W) _____				Lab Use Only:	
Phone: 913-492-0900		TAT if different from Below _____				Custody Seals Intact? Y N NA	
Project Name/Number: TRW 0602		<input type="checkbox"/> 2 weeks				Number of Packages: _____	
Site:		<input type="checkbox"/> 1 week				Temperature: _____ deg C	
P O #: KC001590.0003.00002		<input type="checkbox"/> 2 days		Shipper: ___ FedEx ___ UPS ___ Other: _____			
Sampled by: Larry Benolkin		<input type="checkbox"/> 1 day		Tracking Number: _____			
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Recorded by: _____ Date: _____
MW-3 BH @ 185' 20101215	12/15/2010	0915	6EAB	GW	3	X	Sample Specific Notes:
TB-20101215	-	-	"	W	2	X	
Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Na ₂ S ₂ O ₃ Other 1,2							
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements & Comments:							
Relinquished by: Larry Benolkin		Company: ARCADIS		Date/Time: 12/15/10 - 1530		Received by: [Signature]	
Relinquished by:		Company:		Date/Time:		Date/Time: 12-17-10 10:00	
Relinquished by:		Company:		Date/Time:		Date/Time:	

RETURN WHITE COPY TO LAB WITH SAMPLES
KEEP YELLOW COPY FOR YOUR RECORDS

TAL-0046-140 (9298)

North Canton

TRW Automotive

Client Sample ID: MW-108 BH@185'20101215

GC/MS Volatiles

Lot-Sample #...: A0L170577-001 Work Order #...: MCH4X1AA Matrix.....: WG
 Date Sampled...: 12/15/10 09:15 Date Received...: 12/17/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/23/10
 Prep Batch #...: 0357190
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	2.0	1.0	ug/L
1,1-Dichloroethane	1.8	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	33	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108 BH@185'20101215

GC/MS Volatiles

Lot-Sample #...: A0L170577-001 Work Order #...: MCH4X1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	1.0	1.0	ug/L
Toluene	1.6	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.1	1.0	ug/L
Trichlorofluoromethane	6.4	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	87	(75 - 121)
1,2-Dichloroethane-d4	78	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	83	(66 - 117)

TRW Automotive

Client Sample ID: TB-20101215

GC/MS Volatiles

Lot-Sample #...: A0L170577-002 Work Order #...: MCH411AA Matrix.....: WQ
 Date Sampled...: 12/15/10 Date Received...: 12/17/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/23/10
 Prep Batch #...: 0357190
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB-20101215

GC/MS Volatiles

Lot-Sample #...: A0L170577-002 Work Order #...: MCH411AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	3.3	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	
	RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(75 - 121)
1,2-Dichloroethane-d4	79	(63 - 129)
Toluene-d8	95	(74 - 115)
4-Bromofluorobenzene	82	(66 - 117)

4101 Shafter Drive
Chain of Custody Record
North Canton, OH 44720

TestAmerica Laboratory location: Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Company Name: AREARIS Client Project Manager: John Shonkoff Site Contact: Larry Bunkin Lab Contact: Denise Pohl

Address: 8725 Rosch!ll - St 350 Telephone: 913-442-0900 Telephone: 913-961-0038 Telephone: 330-966-9789

City/State/Zip: Lawrence, KS 66215 Email: John.Shonkoff@areadis-us.com

Phone: 913-492-0900

Project Name: TRW Oak Grove Village 002 Method of Shipment/Carrier: FedEx Shipping/Tracking No: 8715 8796 1235

Project Number: K0001590.00003 P O #

Sample Identification

Sample Date: 3/16/11 Sample Time: 1610

Sample Identification: MM108 (107-235) (20110316) TB-01 (20110316)

Sample Identification: 3/16/11 1610

Sample Identification: 3/16/11 1610

Sample Identification: 3/16/11 1610

Sample Identification: 3/16/11 1610

Sample Identification: 3/16/11 1610

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Sample Identification: 3/16/11 1610

Sample Identification: 3/16/11 1610

Sample Identification: 3/16/11 1610

Sample Identification: 3/16/11 1610

TRW Automotive Inc

Client Sample ID: MW108(187-235)(20110316)

GC/MS Volatiles

Lot-Sample #...: A1C170433-001 Work Order #...: MFRDR1AA Matrix.....: WG
 Date Sampled...: 03/16/11 16:10 Date Received...: 03/17/11
 Prep Date.....: 03/22/11 Analysis Date...: 03/22/11
 Prep Batch #...: 1082131
 Dilution Factor: 2 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	2.0	ug/L
Bromobenzene	ND	2.0	ug/L
Bromochloromethane	ND	2.0	ug/L
Bromodichloromethane	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
n-Butylbenzene	ND	2.0	ug/L
sec-Butylbenzene	ND	2.0	ug/L
tert-Butylbenzene	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Chlorobenzene	ND	2.0	ug/L
Dibromochloromethane	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	2.0	ug/L
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	2.0	ug/L
4-Chlorotoluene	ND	2.0	ug/L
1,2-Dibromoethane	ND	2.0	ug/L
Dibromomethane	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	2.0	ug/L
1,3-Dichlorobenzene	ND	2.0	ug/L
1,4-Dichlorobenzene	ND	2.0	ug/L
Dichlorodifluoromethane	0.83 J	2.0	ug/L
1,1-Dichloroethane	1.4 J	2.0	ug/L
1,2-Dichloroethane	ND	2.0	ug/L
cis-1,2-Dichloroethene	0.51 J	2.0	ug/L
trans-1,2-Dichloroethene	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
Dichlorofluoromethane	65	4.0	ug/L
1,2-Dichloropropane	ND	2.0	ug/L
1,3-Dichloropropane	ND	2.0	ug/L
2,2-Dichloropropane	ND	2.0	ug/L
cis-1,3-Dichloropropene	ND	2.0	ug/L
trans-1,3-Dichloropropene	ND	2.0	ug/L
1,1-Dichloropropene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Hexachlorobutadiene	ND	2.0	ug/L
Isopropylbenzene	ND	2.0	ug/L

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TRW Automotive Inc

Client Sample ID: MW108(187-235)(20110316)

GC/MS Volatiles

Lot-Sample #...: A1C170433-001 Work Order #...: MFRDR1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Naphthalene	ND	2.0	ug/L
n-Propylbenzene	ND	2.0	ug/L
Styrene	ND	2.0	ug/L
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L
Tetrachloroethene	0.91 J	2.0	ug/L
Toluene	3.5	2.0	ug/L
1,2,3-Trichlorobenzene	ND	2.0	ug/L
1,2,4-Trichloro- benzene	ND	2.0	ug/L
1,1,1-Trichloroethane	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Trichloroethene	1.7 J	2.0	ug/L
Trichlorofluoromethane	14	2.0	ug/L
1,2,3-Trichloropropane	ND	2.0	ug/L
1,2,4-Trimethylbenzene	1.0 J,B 2.0 UB	2.0	ug/L
1,3,5-Trimethylbenzene	0.92 J,B 2.0 UB	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
m-Xylene & p-Xylene	ND	4.0	ug/L
o-Xylene	ND	2.0	ug/L

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	107		(75 - 121)	
1,2-Dichloroethane-d4	99		(63 - 129)	
Toluene-d8	90		(74 - 115)	
4-Bromofluorobenzene	79		(66 - 117)	

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

TRW Automotive Inc

Client Sample ID: TB-01(20110316)

GC/MS Volatiles

Lot-Sample #...: A1C170433-002 Work Order #...: MFRD51AA Matrix.....: WQ
 Date Sampled...: 03/16/11 Date Received...: 03/17/11
 Prep Date.....: 03/22/11 Analysis Date...: 03/22/11
 Prep Batch #...: 1082131
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive Inc

Client Sample ID: TB-01(20110316)

GC/MS Volatiles

Lot-Sample #...: A1C170433-002 Work Order #...: MFRD51AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	1.1	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	112		(75 - 121)	
1,2-Dichloroethane-d4	105		(63 - 129)	
Toluene-d8	93		(74 - 115)	
4-Bromofluorobenzene	80		(66 - 117)	

TRW Automotive Inc

Client Sample ID: MW108(187-235)(20110316)

DISSOLVED Metals

Lot-Sample #...: A1C170433-001

Matrix.....: WG

Date Sampled...: 03/16/11 16:10 Date Received...: 03/17/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1077011						
Barium	184 B	200	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AE
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Boron	ND	200	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AF
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Calcium	77800 ✓	5000	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AG
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Iron	ND	100	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AH
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Potassium	2720 B, ✓	5000	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AJ
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Magnesium	42400	5000	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AK
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Manganese	218	15.0	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AL
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Sodium	7000	5000	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AM
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Nickel	6.7 B	40.0	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AN
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				
Zinc	74.4 ✓	20.0	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AP
		Dilution Factor: 1		Analysis Time...: 13:53	Analyst ID.....: 001637	
		Instrument ID...: I5				

(Continued on next page)


TRW Automotive Inc

Client Sample ID: MW108(187-235)(20110316)

DISSOLVED Metals

Lot-Sample #...: A1C170433-001

Matrix.....: WG

REPORTING				PREPARATION-		WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Chromium	ND	5.0	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AC
		Dilution Factor: 1		Analysis Time..: 13:53	Analyst ID.....: 001637	
		Instrument ID..: I5				
Lead	ND	3.0	ug/L	SW846 6010B	03/18-03/21/11	MFRDR1AD
		Dilution Factor: 1		Analysis Time..: 13:53	Analyst ID.....: 001637	
		Instrument ID..: I5				
Prep Batch #...: 1081341						
Lithium	3.5 B	50.0	ug/L	SW846 6010B	03/22-03/30/11	MFRDR1AQ
		Dilution Factor: 1		Analysis Time..: 15:23	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP				
Silica	12500	1070	ug/L	SW846 6010B	03/22-03/30/11	MFRDR1AR
		Dilution Factor: 1		Analysis Time..: 15:23	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP				
Prep Batch #...: 1082015						
Strontium	102 	10.0	ug/L	SW846 6020	03/23-03/24/11	MFRDR1E0
		Dilution Factor: 1		Analysis Time..: 12:38	Analyst ID.....: 000079	
		Instrument ID..: I8				

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

TRW Automotive Inc

Client Sample ID: MW108(187-235)(20110316)

General Chemistry

Lot-Sample #...: A1C170433-001 Work Order #...: MFRDR Matrix.....: WG
Date Sampled...: 03/16/11 16:10 Date Received...: 03/17/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	357	5.0	mg/L	SM18 2320 B	03/18/11	1080195
		Dilution Factor: 1				
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	03/18/11	1080196
		Dilution Factor: 1				
Dissolved ortho-Phosphate	ND	0.50	mg/L	SW846 9056A	03/18/11	1080161
		Dilution Factor: 1				
Dissolved Ammonia as N	ND	2.0	mg/L	SM18 4500 NH3 E	03/28/11	1087125
		Dilution Factor: 1				
Dissolved Bromide	ND	0.50	mg/L	SW846 9056A	03/17/11	1077210
		Dilution Factor: 1				
Dissolved Chloride	10.2 J	1.0	mg/L	SW846 9056A	03/17/11	1077206
		Dilution Factor: 1				
Dissolved Fluoride	0.030 B	1.0	mg/L	SW846 9056A	03/17/11	1077202
		Dilution Factor: 1				
Dissolved Nitrate as N	0.26	0.10	mg/L	SW846 9056A	03/17/11	1077212
		Dilution Factor: 1				
Dissolved Nitrite	ND	0.10	mg/L	SW846 9056A	03/17/11	1077208
		Dilution Factor: 1				
Dissolved Sulfate	11.7	1.0	mg/L	SW846 9056A	03/17/11	1077214
		Dilution Factor: 1				
Total Phosphorus, Dissolved	ND	0.10	mg/L	SM18 4500-P E	03/25/11	1084305
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Project Number/Name KC001590.0003.00002/TRW

Project Location Oak Grove Village, Mo

Laboratory TestAmerica-Carbon

Project Manager TA-Denise Pohl

Sampler(s)/Affiliation Larry Benolki / MRCOUS

ANALYSIS / METHOD / SIZE

Vocs (P260B)

[illegible]

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers	3
-------------------------------------	---

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS</u>	Date: <u>4/26/2011</u>	Time: <u>1500</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>TAL</u>	Date: <u>4/27/11</u>	Time: <u>915</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1</u> / <u>1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1</u> / <u>1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person

☒ Common Carrier FedEx

☐ Lab Courier☐ Other

SPECIFY

SPECIFY

AG 05-12/01

North Canton

TRW Automotive Inc

Client Sample ID: MW-107BH@16'(20110426)

GC/MS Volatiles

Lot-Sample #...: A1D270430-001 Work Order #...: MHJ4M1AA Matrix.....: WG
 Date Sampled...: 04/26/11 09:15 Date Received...: 04/27/11
 Prep Date.....: 05/05/11 Analysis Date...: 05/05/11
 Prep Batch #...: 1125148
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	2.2	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive Inc

Client Sample ID: MW-107BH@16'(20110426)

GC/MS Volatiles

Lot-Sample #...: A1D270430-001 Work Order #...: MHJ4M1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	0.47 J,B 1.0 UB	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.36 J	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(75 - 121)
1,2-Dichloroethane-d4	92	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	86	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Appendix E

Laboratory Reports
(on CD)

ANALYTICAL REPORT

PROJECT NO. KC001590.0003.00002

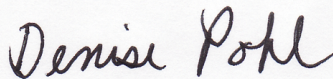
OAK GROVE VILLAGE, MO

Lot #: A1D270430

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
denise.pohl@testamericainc.com

Approved for release.
Denise Pohl
Project Manager
5/18/2011 12:27 PM

May 18, 2011

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com



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Executive Summary	7
Analytical Method Summary	9
Sample Summary	11
Shipping and Receiving Documents	13
GC/MS Volatile Data	17
Total # of Pages in this Document	38

CASE NARRATIVE

CASE NARRATIVE

A1D270430

The following report contains the analytical results for one water sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the OAK GROVE VILLAGE, MO Site, project number KC001590.0003.00002. The sample was received April 27, 2011, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to John Shonfelt and Larry Benolkin on May 16, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.6°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 1125148 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.

For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' - Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A1D270430

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-107BH@16' (20110426) 04/26/11 09:15 001				
Dichlorofluoromethane	2.2	2.0	ug/L	SW846 8260B
Naphthalene	0.47 J,B	1.0	ug/L	SW846 8260B
Toluene	0.36 J	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A1D270430

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A1D270430

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MHJ4M	001	MW-107BH@16 ' (20110426)	04/26/11	09:15

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

Project Number/Name KC001590.0003.00002/TRW

Project Location Oak Grove Village, Mo

Laboratory TestAmerica-Carbon

Project Manager TA-Denise Pohl

Sampler(s)/Affiliation Larry Benolki / MRCOUS

ANALYSIS / METHOD / SIZE

Vocs (P260B)

[illegible]

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers	3
-------------------------------------	---

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS</u>	Date: <u>4/26/2011</u>	Time: <u>1500</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>TAL</u>	Date: <u>4/27/11</u>	Time: <u>915</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1</u> / <u>1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1</u> / <u>1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person

☒ Common Carrier FedEx

☐ Lab Courier☐ Other

SPECIFY

SPECIFY

AG 05-12/01

North Canton

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: AID270430

Client Acadix Project 4-27-11 By: [Signature]
 Cooler Received on 4-27-11 Opened on 4-27-11 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐
 TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
 If YES, Quantity 1 Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
 Were custody seals on the bottle(s)? Yes ☐ No ☒
 If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☐ No ☒
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 1.6 °C See back of form for multiple coolers/temps ☐
 METHOD: IR ☒ Other ☐
 COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☐
 Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
 Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative

North Canton Facility

[illegible]

Discrepancies Cont'd:

[illegible]

GCMS VOLATILE DATA

TRW Automotive Inc

Client Sample ID: MW-107BH@16'(20110426)

GC/MS Volatiles

Lot-Sample #...: A1D270430-001 Work Order #...: MHJ4M1AA Matrix.....: WG
 Date Sampled...: 04/26/11 09:15 Date Received...: 04/27/11
 Prep Date.....: 05/05/11 Analysis Date...: 05/05/11
 Prep Batch #...: 1125148
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	2.2	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive Inc

Client Sample ID: MW-107BH@16'(20110426)

GC/MS Volatiles

Lot-Sample #...: A1D270430-001 Work Order #...: MHJ4M1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	0.47 J,B	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.36 J	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	88	(75 - 121)
1,2-Dichloroethane-d4	92	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	86	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D270430
MB Lot-Sample #: A1E050000-148

Work Order #...: MHXH01AA

Matrix.....: WATER

Analysis Date...: 05/04/11

Prep Date.....: 05/04/11

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 1125148

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	0.57 J	1.0	ug/L	SW846	8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D270430

Work Order #...: MHXH01AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
n-Propylbenzene	ND	1.0	ug/L	SW846	8260B
Styrene	ND	1.0	ug/L	SW846	8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
Tetrachloroethene	ND	1.0	ug/L	SW846	8260B
Toluene	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichlorobenzene	0.21 J	1.0	ug/L	SW846	8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846	8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846	8260B
Trichloroethene	ND	1.0	ug/L	SW846	8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846	8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
Vinyl chloride	ND	1.0	ug/L	SW846	8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846	8260B
o-Xylene	ND	1.0	ug/L	SW846	8260B
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
Dibromofluoromethane	87		(75 - 121)		
1,2-Dichloroethane-d4	91		(63 - 129)		
Toluene-d8	92		(74 - 115)		
4-Bromofluorobenzene	87		(66 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHXH01AC Matrix.....: WATER
 LCS Lot-Sample#: A1E050000-148
 Prep Date.....: 05/04/11 Analysis Date...: 05/04/11
 Prep Batch #...: 1125148
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT	RECOVERY	METHOD
	RECOVERY	LIMITS	
Benzene	92	(83 - 112)	SW846 8260B
Acetone	102	(43 - 136)	SW846 8260B
Bromobenzene	92	(76 - 115)	SW846 8260B
Carbon disulfide	91	(62 - 142)	SW846 8260B
1,2-Dichloroethene (total)	90	(82 - 114)	SW846 8260B
Bromochloromethane	92	(77 - 120)	SW846 8260B
2-Butanone	102	(60 - 126)	SW846 8260B
Bromodichloromethane	95	(72 - 121)	SW846 8260B
Bromoform	92	(40 - 131)	SW846 8260B
Bromomethane	111	(11 - 185)	SW846 8260B
n-Butylbenzene	96	(66 - 125)	SW846 8260B
4-Methyl-2-pentanone	103	(63 - 128)	SW846 8260B
2-Hexanone	113	(55 - 133)	SW846 8260B
sec-Butylbenzene	93	(70 - 117)	SW846 8260B
tert-Butylbenzene	92	(71 - 115)	SW846 8260B
Xylenes (total)	97	(83 - 112)	SW846 8260B
Carbon tetrachloride	102	(66 - 128)	SW846 8260B
Chlorobenzene	92	(85 - 110)	SW846 8260B
Dibromochloromethane	97	(64 - 119)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	117	(74 - 151)	SW846 8260B
Methyl acetate	97	(58 - 131)	SW846 8260B
Chloroethane	94	(25 - 153)	SW846 8260B
Methyl tert-butyl ether (MTBE)	96	(52 - 144)	SW846 8260B
Cyclohexane	95	(54 - 121)	SW846 8260B
Methylcyclohexane	100	(56 - 127)	SW846 8260B
Chloroform	93	(79 - 117)	SW846 8260B
Chloromethane	67	(44 - 126)	SW846 8260B
1,2-Dibromo-3-chloro- propane	83	(42 - 136)	SW846 8260B
2-Chlorotoluene	89	(76 - 116)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHXH01AC Matrix.....: WATER
LCS Lot-Sample#: A1E050000-148

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl tert-butyl ether	96	(52 - 144)	SW846 8260B
n-Hexane	107	(66 - 137)	SW846 8260B
4-Chlorotoluene	91	(77 - 115)	SW846 8260B
2-Chloroethyl vinyl ether	94	(52 - 131)	SW846 8260B
Acetonitrile	101	(15 - 184)	SW846 8260B
1,2-Dibromoethane	98	(79 - 113)	SW846 8260B
Acrolein	65	(51 - 170)	SW846 8260B
Vinyl acetate	96	(46 - 161)	SW846 8260B
Acrylonitrile	91	(66 - 132)	SW846 8260B
Dibromomethane	100	(81 - 120)	SW846 8260B
1,2-Dichlorobenzene	90	(81 - 110)	SW846 8260B
1,3-Dichlorobenzene	89	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	89	(82 - 110)	SW846 8260B
Iodomethane	101	(72 - 141)	SW846 8260B
Isopropyl ether	90	(77 - 118)	SW846 8260B
Dichlorodifluoromethane	78	(19 - 129)	SW846 8260B
1,1-Dichloroethane	93	(82 - 115)	SW846 8260B
1,2-Dichloroethane	101	(71 - 127)	SW846 8260B
cis-1,2-Dichloroethene	87	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	93	(83 - 117)	SW846 8260B
1,1-Dichloroethene	101	(78 - 131)	SW846 8260B
1,2-Dichloropropane	93	(81 - 115)	SW846 8260B
1,3-Dichloropropane	96	(79 - 116)	SW846 8260B
2,2-Dichloropropane	84	(50 - 129)	SW846 8260B
cis-1,3-Dichloropropene	86	(61 - 115)	SW846 8260B
trans-1,3-Dichloropropene	94	(58 - 117)	SW846 8260B
1,1-Dichloropropene	94	(83 - 114)	SW846 8260B
Ethylbenzene	93	(83 - 112)	SW846 8260B
Hexachlorobutadiene	77	(36 - 134)	SW846 8260B
Isopropylbenzene	93	(75 - 114)	SW846 8260B
p-Isopropyltoluene	97	(74 - 120)	SW846 8260B
Methylene chloride	87	(66 - 131)	SW846 8260B
Naphthalene	75	(32 - 141)	SW846 8260B
n-Propylbenzene	93	(74 - 121)	SW846 8260B
Styrene	96	(79 - 114)	SW846 8260B
1,1,1,2-Tetrachloroethane	93	(72 - 116)	SW846 8260B
1,1,2,2-Tetrachloroethane	92	(68 - 118)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHXH01AC Matrix.....: WATER
 LCS Lot-Sample#: A1E050000-148

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tetrachloroethene	98	(79 - 114)	SW846 8260B
Toluene	96	(84 - 111)	SW846 8260B
1,2,3-Trichlorobenzene	76	(54 - 126)	SW846 8260B
1,2,4-Trichloro- benzene	79	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	98	(74 - 118)	SW846 8260B
1,1,2-Trichloroethane	98	(80 - 112)	SW846 8260B
Trichloroethene	92	(76 - 117)	SW846 8260B
Trichlorofluoromethane	115	(49 - 157)	SW846 8260B
1,2,3-Trichloropropane	101	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	94	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	93	(72 - 118)	SW846 8260B
Vinyl chloride	84	(53 - 127)	SW846 8260B
m-Xylene & p-Xylene	96	(83 - 113)	SW846 8260B
o-Xylene	97	(83 - 113)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	100	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1D270430	Work Order #...: MHXH01AC	Matrix.....: WATER
LCS Lot-Sample#: A1E050000-148		
Prep Date.....: 05/04/11	Analysis Date...: 05/04/11	
Prep Batch #...: 1125148		
Dilution Factor: 1	Final Wgt/Vol...: 5 mL	
Initial Wgt/Vol: 5 mL		

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Benzene	10	9.2	ug/L	92	SW846 8260B
Acetone	20	20	ug/L	102	SW846 8260B
Bromobenzene	10	9.2	ug/L	92	SW846 8260B
Carbon disulfide	10	9.1	ug/L	91	SW846 8260B
1,2-Dichloroethene (total)	20	18	ug/L	90	SW846 8260B
Bromochloromethane	10	9.2	ug/L	92	SW846 8260B
2-Butanone	20	20	ug/L	102	SW846 8260B
Bromodichloromethane	10	9.5	ug/L	95	SW846 8260B
Bromoform	10	9.2	ug/L	92	SW846 8260B
Bromomethane	10	11	ug/L	111	SW846 8260B
n-Butylbenzene	10	9.6	ug/L	96	SW846 8260B
4-Methyl-2-pentanone	20	21	ug/L	103	SW846 8260B
2-Hexanone	20	23	ug/L	113	SW846 8260B
sec-Butylbenzene	10	9.3	ug/L	93	SW846 8260B
tert-Butylbenzene	10	9.2	ug/L	92	SW846 8260B
Xylenes (total)	30	29	ug/L	97	SW846 8260B
Carbon tetrachloride	10	10	ug/L	102	SW846 8260B
Chlorobenzene	10	9.2	ug/L	92	SW846 8260B
Dibromochloromethane	10	9.7	ug/L	97	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	12	ug/L	117	SW846 8260B
Methyl acetate	10	9.7	ug/L	97	SW846 8260B
Chloroethane	10	9.4	ug/L	94	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.6	ug/L	96	SW846 8260B
Cyclohexane	10	9.5	ug/L	95	SW846 8260B
Methylcyclohexane	10	10	ug/L	100	SW846 8260B
Chloroform	10	9.3	ug/L	93	SW846 8260B
Chloromethane	10	6.7	ug/L	67	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	8.3	ug/L	83	SW846 8260B
2-Chlorotoluene	10	8.9	ug/L	89	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1D270430
LCS Lot-Sample#: A1E050000-148

Work Order #...: MHXH01AC

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Methyl tert-butyl ether	10	9.6	ug/L	96	SW846 8260B
n-Hexane	10	11	ug/L	107	SW846 8260B
4-Chlorotoluene	10	9.1	ug/L	91	SW846 8260B
2-Chloroethyl vinyl ether	10	9.4	ug/L	94	SW846 8260B
Acetonitrile	30	30	ug/L	101	SW846 8260B
1,2-Dibromoethane	10	9.8	ug/L	98	SW846 8260B
Acrolein	30	19	ug/L	65	SW846 8260B
Vinyl acetate	10	9.6	ug/L	96	SW846 8260B
Acrylonitrile	30	27	ug/L	91	SW846 8260B
Dibromomethane	10	10	ug/L	100	SW846 8260B
1,2-Dichlorobenzene	10	9.0	ug/L	90	SW846 8260B
1,3-Dichlorobenzene	10	8.9	ug/L	89	SW846 8260B
1,4-Dichlorobenzene	10	8.9	ug/L	89	SW846 8260B
Iodomethane	10	10	ug/L	101	SW846 8260B
Isopropyl ether	10	9.0	ug/L	90	SW846 8260B
Dichlorodifluoromethane	10	7.8	ug/L	78	SW846 8260B
1,1-Dichloroethane	10	9.3	ug/L	93	SW846 8260B
1,2-Dichloroethane	10	10	ug/L	101	SW846 8260B
cis-1,2-Dichloroethene	10	8.7	ug/L	87	SW846 8260B
trans-1,2-Dichloroethene	10	9.3	ug/L	93	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	101	SW846 8260B
1,2-Dichloropropane	10	9.3	ug/L	93	SW846 8260B
1,3-Dichloropropane	10	9.6	ug/L	96	SW846 8260B
2,2-Dichloropropane	10	8.4	ug/L	84	SW846 8260B
cis-1,3-Dichloropropene	10	8.6	ug/L	86	SW846 8260B
trans-1,3-Dichloropropene	10	9.4	ug/L	94	SW846 8260B
1,1-Dichloropropene	10	9.4	ug/L	94	SW846 8260B
Ethylbenzene	10	9.3	ug/L	93	SW846 8260B
Hexachlorobutadiene	10	7.7	ug/L	77	SW846 8260B
Isopropylbenzene	10	9.3	ug/L	93	SW846 8260B
p-Isopropyltoluene	10	9.7	ug/L	97	SW846 8260B
Methylene chloride	10	8.7	ug/L	87	SW846 8260B
Naphthalene	10	7.5	ug/L	75	SW846 8260B
n-Propylbenzene	10	9.3	ug/L	93	SW846 8260B
Styrene	10	9.6	ug/L	96	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.3	ug/L	93	SW846 8260B
1,1,2,2-Tetrachloroethane	10	9.2	ug/L	92	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1D270430
LCS Lot-Sample#: A1E050000-148

Work Order #...: MHXH01AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tetrachloroethene	10	9.8	ug/L	98	SW846 8260B
Toluene	10	9.6	ug/L	96	SW846 8260B
1,2,3-Trichlorobenzene	10	7.6	ug/L	76	SW846 8260B
1,2,4-Trichloro- benzene	10	7.9	ug/L	79	SW846 8260B
1,1,1-Trichloroethane	10	9.8	ug/L	98	SW846 8260B
1,1,2-Trichloroethane	10	9.8	ug/L	98	SW846 8260B
Trichloroethene	10	9.2	ug/L	92	SW846 8260B
Trichlorofluoromethane	10	12	ug/L	115	SW846 8260B
1,2,3-Trichloropropane	10	10	ug/L	101	SW846 8260B
1,2,4-Trimethylbenzene	10	9.4	ug/L	94	SW846 8260B
1,3,5-Trimethylbenzene	10	9.3	ug/L	93	SW846 8260B
Vinyl chloride	10	8.4	ug/L	84	SW846 8260B
m-Xylene & p-Xylene	20	19	ug/L	96	SW846 8260B
o-Xylene	10	9.7	ug/L	97	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	100	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
 MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD
 Date Sampled...: 04/26/11 08:50 Date Received...: 04/27/11
 Prep Date.....: 05/05/11 Analysis Date...: 05/05/11
 Prep Batch #...: 1125148
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	98	(72 - 121)			SW846 8260B
	99	(72 - 121)	1.3	(0-30)	SW846 8260B
Bromobenzene	93	(71 - 116)			SW846 8260B
	96	(71 - 116)	3.0	(0-30)	SW846 8260B
Acetone	97	(33 - 145)			SW846 8260B
	98	(33 - 145)	0.83	(0-30)	SW846 8260B
Carbon disulfide	98	(57 - 147)			SW846 8260B
	97	(57 - 147)	0.49	(0-30)	SW846 8260B
Bromochloromethane	96	(73 - 121)			SW846 8260B
	97	(73 - 121)	0.58	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	95	(75 - 119)			SW846 8260B
	96	(75 - 119)	1.4	(0-30)	SW846 8260B
Bromodichloromethane	101	(67 - 120)			SW846 8260B
	99	(67 - 120)	1.8	(0-30)	SW846 8260B
2-Butanone	103	(54 - 129)			SW846 8260B
	101	(54 - 129)	1.9	(0-30)	SW846 8260B
Bromoform	96	(32 - 128)			SW846 8260B
	92	(32 - 128)	4.4	(0-30)	SW846 8260B
Bromomethane	93	(10 - 186)			SW846 8260B
	113	(10 - 186)	20	(0-30)	SW846 8260B
n-Butylbenzene	83	(56 - 127)			SW846 8260B
	88	(56 - 127)	6.3	(0-30)	SW846 8260B
4-Methyl-2-pentanone	108	(56 - 131)			SW846 8260B
	107	(56 - 131)	1.1	(0-30)	SW846 8260B
sec-Butylbenzene	84	(60 - 119)			SW846 8260B
	90	(60 - 119)	7.1	(0-30)	SW846 8260B
2-Hexanone	116	(47 - 139)			SW846 8260B
	116	(47 - 139)	0.05	(0-30)	SW846 8260B
tert-Butylbenzene	88	(61 - 119)			SW846 8260B
	94	(61 - 119)	6.8	(0-30)	SW846 8260B
Carbon tetrachloride	98	(59 - 129)			SW846 8260B
	102	(59 - 129)	4.0	(0-30)	SW846 8260B
Xylenes (total)	96	(76 - 116)			SW846 8260B
	99	(76 - 116)	2.6	(0-30)	SW846 8260B
Chlorobenzene	94	(80 - 110)			SW846 8260B
	96	(80 - 110)	1.4	(0-30)	SW846 8260B
Dibromochloromethane	100	(56 - 118)			SW846 8260B
	99	(56 - 118)	0.61	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	95	(70 - 152)			SW846 8260B
	96	(70 - 152)	1.5	(0-30)	SW846 8260B
Methyl acetate	85	(47 - 130)			SW846 8260B
	83	(47 - 130)	2.4	(0-30)	SW846 8260B
Chloroethane	88	(21 - 165)			SW846 8260B
	102	(21 - 165)	15	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	100	(46 - 144)			SW846 8260B
	100	(46 - 144)	0.73	(0-30)	SW846 8260B
Cyclohexane	78	(49 - 123)			SW846 8260B
	82	(49 - 123)	5.2	(0-30)	SW846 8260B
Methylcyclohexane	77	(49 - 127)			SW846 8260B
	79	(49 - 127)	3.4	(0-30)	SW846 8260B
Chloroform	99	(76 - 118)			SW846 8260B
	98	(76 - 118)	0.91	(0-30)	SW846 8260B
Chloromethane	61	(33 - 132)			SW846 8260B
	67	(33 - 132)	10	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(32 - 139)			SW846 8260B
	96	(32 - 139)	1.9	(0-30)	SW846 8260B
2-Chlorotoluene	88	(69 - 117)			SW846 8260B
	92	(69 - 117)	5.0	(0-30)	SW846 8260B
Methyl tert-butyl ether	100	(46 - 144)			SW846 8260B
	100	(46 - 144)	0.73	(0-30)	SW846 8260B
n-Hexane	76	(54 - 138)			SW846 8260B
	76	(54 - 138)	0.09	(0-30)	SW846 8260B
4-Chlorotoluene	89	(71 - 116)			SW846 8260B
	94	(71 - 116)	6.3	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	97	(12 - 182)			SW846 8260B
	97	(12 - 182)	0.80	(0-30)	SW846 8260B
1,2-Dibromoethane	103	(74 - 113)			SW846 8260B
	102	(74 - 113)	0.56	(0-30)	SW846 8260B
Acrolein	51	(47 - 168)			SW846 8260B
	45 a	(47 - 168)	13	(0-30)	SW846 8260B
Acrylonitrile	93	(62 - 133)			SW846 8260B
	92	(62 - 133)	1.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl acetate	92	(43 - 157)			SW846 8260B
	87	(43 - 157)	6.3	(0-30)	SW846 8260B
Dibromomethane	105	(77 - 121)			SW846 8260B
	104	(77 - 121)	0.28	(0-30)	SW846 8260B
1,2-Dichlorobenzene	91	(75 - 111)			SW846 8260B
	95	(75 - 111)	4.6	(0-30)	SW846 8260B
1,3-Dichlorobenzene	89	(73 - 110)			SW846 8260B
	93	(73 - 110)	5.1	(0-30)	SW846 8260B
1,4-Dichlorobenzene	88	(75 - 110)			SW846 8260B
	92	(75 - 110)	3.6	(0-30)	SW846 8260B
Iodomethane	101	(66 - 144)			SW846 8260B
	106	(66 - 144)	4.3	(0-30)	SW846 8260B
Isopropyl ether	95	(73 - 118)			SW846 8260B
	99	(73 - 118)	4.0	(0-30)	SW846 8260B
Dichlorodifluoromethane	63	(17 - 128)			SW846 8260B
	65	(17 - 128)	2.4	(0-30)	SW846 8260B
1,1-Dichloroethane	96	(79 - 116)			SW846 8260B
	97	(79 - 116)	0.86	(0-30)	SW846 8260B
1,2-Dichloroethane	107	(68 - 129)			SW846 8260B
	107	(68 - 129)	0.19	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	93	(70 - 120)			SW846 8260B
	95	(70 - 120)	2.1	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	97	(80 - 119)			SW846 8260B
	97	(80 - 119)	0.72	(0-30)	SW846 8260B
1,1-Dichloroethene	104	(74 - 135)			SW846 8260B
	104	(74 - 135)	0.71	(0-30)	SW846 8260B
1,2-Dichloropropane	99	(78 - 115)			SW846 8260B
	98	(78 - 115)	0.27	(0-30)	SW846 8260B
1,3-Dichloropropane	100	(74 - 118)			SW846 8260B
	100	(74 - 118)	0.05	(0-30)	SW846 8260B
2,2-Dichloropropane	78	(38 - 127)			SW846 8260B
	78	(38 - 127)	0.15	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	80	(51 - 110)			SW846 8260B
	83	(51 - 110)	3.4	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	87	(46 - 116)			SW846 8260B
	90	(46 - 116)	3.0	(0-30)	SW846 8260B
1,1-Dichloropropene	95	(80 - 114)			SW846 8260B
	98	(80 - 114)	2.7	(0-30)	SW846 8260B
Ethylbenzene	96	(75 - 116)			SW846 8260B
	97	(75 - 116)	1.6	(0-30)	SW846 8260B
Hexachlorobutadiene	65	(27 - 132)			SW846 8260B
	71	(27 - 132)	9.5	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Isopropylbenzene	90	(68 - 116)			SW846 8260B
	95	(68 - 116)	5.1	(0-30)	SW846 8260B
p-Isopropyltoluene	88	(64 - 122)			SW846 8260B
	93	(64 - 122)	5.9	(0-30)	SW846 8260B
Methylene chloride	90	(63 - 128)			SW846 8260B
	92	(63 - 128)	1.8	(0-30)	SW846 8260B
Naphthalene	87	(15 - 158)			SW846 8260B
	86	(15 - 158)	0.76	(0-30)	SW846 8260B
n-Propylbenzene	87	(64 - 124)			SW846 8260B
	91	(64 - 124)	5.0	(0-30)	SW846 8260B
Styrene	96	(71 - 117)			SW846 8260B
	99	(71 - 117)	2.8	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(64 - 118)			SW846 8260B
	97	(64 - 118)	1.2	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	96	(63 - 122)			SW846 8260B
	98	(63 - 122)	2.3	(0-30)	SW846 8260B
Tetrachloroethene	94	(70 - 117)			SW846 8260B
	97	(70 - 117)	3.0	(0-30)	SW846 8260B
Toluene	100	(78 - 114)			SW846 8260B
	99	(78 - 114)	1.2	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	79	(45 - 129)			SW846 8260B
	85	(45 - 129)	7.7	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	80	(38 - 138)			SW846 8260B
	84	(38 - 138)	5.7	(0-30)	SW846 8260B
1,1,1-Trichloroethane	98	(68 - 121)			SW846 8260B
	101	(68 - 121)	2.5	(0-30)	SW846 8260B
1,1,2-Trichloroethane	103	(75 - 115)			SW846 8260B
	103	(75 - 115)	0.21	(0-30)	SW846 8260B
Trichloroethene	92	(66 - 120)			SW846 8260B
	95	(66 - 120)	2.5	(0-30)	SW846 8260B
Trichlorofluoromethane	87	(46 - 157)			SW846 8260B
	99	(46 - 157)	13	(0-30)	SW846 8260B
1,2,3-Trichloropropane	104	(67 - 132)			SW846 8260B
	99	(67 - 132)	5.1	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	91	(67 - 124)			SW846 8260B
	96	(67 - 124)	6.0	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	90	(63 - 121)			SW846 8260B
	95	(63 - 121)	4.9	(0-30)	SW846 8260B
Vinyl chloride	84	(49 - 130)			SW846 8260B
	85	(49 - 130)	1.1	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
 MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
m-Xylene & p-Xylene	96	(75 - 117)			SW846 8260B
	97	(75 - 117)	1.5	(0-30)	SW846 8260B
o-Xylene	97	(76 - 116)			SW846 8260B
	101	(76 - 116)	4.6	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(75 - 121)
	85	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
	88	(63 - 129)
Toluene-d8	91	(74 - 115)
	91	(74 - 115)
4-Bromofluorobenzene	96	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
 MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD
 Date Sampled...: 04/26/11 08:50 Date Received...: 04/27/11
 Prep Date.....: 05/05/11 Analysis Date...: 05/05/11
 Prep Batch #...: 1125148
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.9	ug/L	99	1.3	SW846 8260B
Bromobenzene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.6	ug/L	96	3.0	SW846 8260B
Acetone	1.9	20	21	ug/L	97		SW846 8260B
	1.9	20	21	ug/L	98	0.83	SW846 8260B
Carbon disulfide	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.7	ug/L	97	0.49	SW846 8260B
Bromochloromethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.7	ug/L	97	0.58	SW846 8260B
1,2-Dichloroethene (total)	ND	20	19	ug/L	95		SW846 8260B
	ND	20	19	ug/L	96	1.4	SW846 8260B
Bromodichloromethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	9.9	ug/L	99	1.8	SW846 8260B
2-Butanone	ND	20	21	ug/L	103		SW846 8260B
	ND	20	20	ug/L	101	1.9	SW846 8260B
Bromoform	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.2	ug/L	92	4.4	SW846 8260B
Bromomethane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	11	ug/L	113	20	SW846 8260B
n-Butylbenzene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.8	ug/L	88	6.3	SW846 8260B
4-Methyl-2-pentanone	ND	20	22	ug/L	108		SW846 8260B
	ND	20	21	ug/L	107	1.1	SW846 8260B
sec-Butylbenzene	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	9.0	ug/L	90	7.1	SW846 8260B
2-Hexanone	ND	20	23	ug/L	116		SW846 8260B
	ND	20	23	ug/L	116	0.05	SW846 8260B
tert-Butylbenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.4	ug/L	94	6.8	SW846 8260B
Carbon tetrachloride	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	102	4.0	SW846 8260B
Xylenes (total)	ND	30	29	ug/L	96		SW846 8260B
	ND	30	30	ug/L	99	2.6	SW846 8260B
Chlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.6	ug/L	96	1.4	SW846 8260B
Dibromochloromethane	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.9	ug/L	99	0.61	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.6	ug/L	96	1.5	SW846 8260B
Methyl acetate	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.3	ug/L	83	2.4	SW846 8260B
Chloroethane	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	10	ug/L	102	15	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	10	ug/L	100		SW846 8260B
	ND	10	10	ug/L	100	0.73	SW846 8260B
Cyclohexane	ND	10	7.8	ug/L	78		SW846 8260B
	ND	10	8.2	ug/L	82	5.2	SW846 8260B
Methylcyclohexane	ND	10	7.7	ug/L	77		SW846 8260B
	ND	10	7.9	ug/L	79	3.4	SW846 8260B
Chloroform	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.8	ug/L	98	0.91	SW846 8260B
Chloromethane	ND	10	6.1	ug/L	61		SW846 8260B
	ND	10	6.7	ug/L	67	10	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.6	ug/L	96	1.9	SW846 8260B
2-Chlorotoluene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.2	ug/L	92	5.0	SW846 8260B
Methyl tert-butyl ether	ND	10	10	ug/L	100		SW846 8260B
	ND	10	10	ug/L	100	0.73	SW846 8260B
n-Hexane	ND	10	7.6	ug/L	76		SW846 8260B
	ND	10	7.6	ug/L	76	0.09	SW846 8260B
4-Chlorotoluene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.4	ug/L	94	6.3	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	0.0	ug/L	0.0 a		SW846 8260B
	ND	10	0.0	ug/L	0.0 a	0.0	SW846 8260B
Acetonitrile	ND	30	29	ug/L	97		SW846 8260B
	ND	30	29	ug/L	97	0.80	SW846 8260B
1,2-Dibromoethane	ND	10	10	ug/L	103		SW846 8260B
	ND	10	10	ug/L	102	0.56	SW846 8260B
Acrolein	ND	30	15	ug/L	51		SW846 8260B
	ND	30	13	ug/L	45 a	13	SW846 8260B
Acrylonitrile	ND	30	28	ug/L	93		SW846 8260B
	ND	30	28	ug/L	92	1.1	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Vinyl acetate	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	8.7	ug/L	87	6.3	SW846 8260B
Dibromomethane	ND	10	10	ug/L	105		SW846 8260B
	ND	10	10	ug/L	104	0.28	SW846 8260B
1,2-Dichlorobenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.5	ug/L	95	4.6	SW846 8260B
1,3-Dichlorobenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.3	ug/L	93	5.1	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.2	ug/L	92	3.6	SW846 8260B
Iodomethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	11	ug/L	106	4.3	SW846 8260B
Isopropyl ether	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.9	ug/L	99	4.0	SW846 8260B
Dichlorodifluoromethane	ND	10	6.3	ug/L	63		SW846 8260B
	ND	10	6.5	ug/L	65	2.4	SW846 8260B
1,1-Dichloroethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.7	ug/L	97	0.86	SW846 8260B
1,2-Dichloroethane	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	107	0.19	SW846 8260B
cis-1,2-Dichloroethene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.5	ug/L	95	2.1	SW846 8260B
trans-1,2-Dichloroethene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.7	ug/L	97	0.72	SW846 8260B
1,1-Dichloroethene	ND	10	10	ug/L	104		SW846 8260B
	ND	10	10	ug/L	104	0.71	SW846 8260B
1,2-Dichloropropane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.8	ug/L	98	0.27	SW846 8260B
1,3-Dichloropropane	ND	10	10	ug/L	100		SW846 8260B
	ND	10	10	ug/L	100	0.05	SW846 8260B
2,2-Dichloropropane	ND	10	7.8	ug/L	78		SW846 8260B
	ND	10	7.8	ug/L	78	0.15	SW846 8260B
cis-1,3-Dichloropropene	ND	10	8.0	ug/L	80		SW846 8260B
	ND	10	8.3	ug/L	83	3.4	SW846 8260B
trans-1,3-Dichloropropene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.0	ug/L	90	3.0	SW846 8260B
1,1-Dichloropropene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.8	ug/L	98	2.7	SW846 8260B
Ethylbenzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.7	ug/L	97	1.6	SW846 8260B
Hexachlorobutadiene	ND	10	6.5	ug/L	65		SW846 8260B
	ND	10	7.1	ug/L	71	9.5	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
 MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Isopropylbenzene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.5	ug/L	95	5.1	SW846 8260B
p-Isopropyltoluene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.3	ug/L	93	5.9	SW846 8260B
Methylene chloride	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.2	ug/L	92	1.8	SW846 8260B
Naphthalene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.6	ug/L	86	0.76	SW846 8260B
n-Propylbenzene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.1	ug/L	91	5.0	SW846 8260B
Styrene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.9	ug/L	99	2.8	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.7	ug/L	97	1.2	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.8	ug/L	98	2.3	SW846 8260B
Tetrachloroethene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.7	ug/L	97	3.0	SW846 8260B
Toluene	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.9	ug/L	99	1.2	SW846 8260B
1,2,3-Trichlorobenzene	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	8.5	ug/L	85	7.7	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	8.0	ug/L	80		SW846 8260B
	ND	10	8.4	ug/L	84	5.7	SW846 8260B
1,1,1-Trichloroethane	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	101	2.5	SW846 8260B
1,1,2-Trichloroethane	ND	10	10	ug/L	103		SW846 8260B
	ND	10	10	ug/L	103	0.21	SW846 8260B
Trichloroethene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.5	ug/L	95	2.5	SW846 8260B
Trichlorofluoromethane	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.9	ug/L	99	13	SW846 8260B
1,2,3-Trichloropropane	ND	10	10	ug/L	104		SW846 8260B
	ND	10	9.9	ug/L	99	5.1	SW846 8260B
1,2,4-Trimethylbenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.6	ug/L	96	6.0	SW846 8260B
1,3,5-Trimethylbenzene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.5	ug/L	95	4.9	SW846 8260B
Vinyl chloride	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.5	ug/L	85	1.1	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1D270430 Work Order #...: MHKG21DM-MS Matrix.....: WATER
 MS Lot-Sample #: A1D270528-003 MHKG21DN-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
m-Xylene & p-Xylene	ND	20	19	ug/L	96		SW846 8260B
	ND	20	19	ug/L	97	1.5	SW846 8260B
o-Xylene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	10	ug/L	101	4.6	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(75 - 121)
	85	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
	88	(63 - 129)
Toluene-d8	91	(74 - 115)
	91	(74 - 115)
4-Bromofluorobenzene	96	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

END OF REPORT

ANALYTICAL REPORT

Job Number: 240-1920-1

Job Description: TRW OGV OU2 Sullivan, MO

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Patrick J O'Meara
Project Manager II
8/19/2011 10:26 AM

Designee for
Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
08/19/2011

cc: Mr. John Shonfelt
Kirsten Wright

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CASE NARRATIVE

Client: TRW Automotive

Project: TRW OGV OU2 Sullivan, MO

Report Number: 240-1920-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 07/13/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

Method(s) 9056A: The following samples were prepared outside of preparation holding time: MW-107BH@235'(20110711).

All other samples were received in good condition within temperature requirements.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-107BH@235'(20110711) (240-1920-1) and TRIP BLANK (240-1920-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/18/2011.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Sample MW-107BH@235'(20110711) (240-1920-1) was analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were analyzed on 07/19/2011, 07/20/2011 and 08/03/2011.

Barium, Calcium and Potassium were detected in method blank MB 240-8571/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Manganese failed the recovery criteria low for the MS/MSD of sample 240-1929-2 in batch 240-9023.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Sample MW-107BH@235'(20110711) (240-1920-1) was analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were analyzed on 08/03/2011.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

ALKALINITY

Sample MW-107BH@235'(20110711) (240-1920-1) was analyzed for alkalinity in accordance with SM20 2320B. The samples were analyzed on 07/14/2011.

Alkalinity was detected in method blank MB 240-8495/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J".

No other difficulties were encountered during the alkalinity analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED PHOSPHORUS

Sample MW-107BH@235'(20110711) (240-1920-1) was analyzed for Dissolved Phosphorus in accordance with SM4500 P E. The samples were analyzed on 07/15/2011.

No difficulties were encountered during the Total Phosphorus analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Sample MW-107BH@235'(20110711) (240-1920-1) was analyzed for anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 07/14/2011.

Orthophosphate failed the recovery criteria high for the MS/MSD of sample 240-1930-5 in batch 240-8356.

Refer to the QC report for details.

No difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

ANIONS

Sample MW-107BH@235'(20110711) (240-1920-1) was analyzed for anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 07/14/2011.

Chloride failed the recovery criteria high for the MSD of sample 240-1930-5 in batch 240-8357.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-1920-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-1920-1						
	MW-107BH@235'(20110711)					
Dichlorodifluoromethane		1.1		1.0	ug/L	8260B
1,1-Dichloroethane		0.19	J	1.0	ug/L	8260B
Dichlorofluoromethane		22		2.0	ug/L	8260B
Tetrachloroethene		0.40	J	1.0	ug/L	8260B
Toluene		2.1		1.0	ug/L	8260B
Trichloroethene		2.0		1.0	ug/L	8260B
Trichlorofluoromethane		32		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		240		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		49	J B	200	ug/L	6010B
SiO2, Silica		9800		1100	ug/L	6010B
Lithium		5.1	J	50	ug/L	6010B
Calcium		50000	B	5000	ug/L	6010B
Potassium		2100	J B	5000	ug/L	6010B
Magnesium		33000		5000	ug/L	6010B
Manganese		17		15	ug/L	6010B
Sodium		4600	J	5000	ug/L	6010B
Strontium		56		10	ug/L	6020
Chloride-Dissolved		6.6		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.52	H	0.10	mg/L	9056A
Fluoride-Dissolved		0.077	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.58	H	0.50	mg/L	9056A
Sulfate-Dissolved		9.8		1.0	mg/L	9056A
Total Phosphorus as PO4-Dissolved		0.033	J	0.10	mg/L	SM 4500 P E
240-1920-2TB						
	TRIP BLANK					
Toluene		0.27	J	1.0	ug/L	8260B

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-1920-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC/MS)		TAL NC	SW846 8260B	
Purge and Trap		TAL NC		SW846 5030B
Metals (ICP)		TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals				SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Sample Filtration, Field				FIELD_FLTRD
Alkalinity		TAL NC	SM SM 2320B	
Phosphorus		TAL NC	SM SM 4500 P E	
Phosphorus, Total				MCAWW 365.2/365.3/365
Sample Filtration, Field				FIELD_FLTRD
Metals (ICP)		TAL PIT	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals				SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Metals (ICP/MS)		TAL PIT	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals				SW846 3005A
Sample Filtration, Field				FIELD_FLTRD

Lab References:

TAL NC = TestAmerica North Canton

TAL PIT = TestAmerica Pittsburgh

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-1920-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LE
SW846 6010B	Counts, Karen	KC
SW846 6010B	Good, Rob	RG
SW846 6020	Reinheimer, Bill	BR
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Burns, Jill	JB
SM SM 4500 P E	Kuhle, Julie	JK

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-1920-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-1920-1	MW-107BH@235'(20110711)	Water	07/11/2011 1545	07/13/2011 0910
240-1920-2TB	TRIP BLANK	Water	07/11/2011 0000	07/13/2011 0910

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: MW-107BH@235'(20110711)

Lab Sample ID: 240-1920-1

Date Sampled: 07/11/2011 1545

Client Matrix: Water

Date Received: 07/13/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-8795	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC6807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/18/2011 1554			Final Weight/Volume:	5 mL
Prep Date:	07/18/2011 1554				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.1		0.31	1.0
1,1-Dichloroethane	0.19	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	22		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.40	J	0.29	1.0
Toluene	2.1		0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: MW-107BH@235'(20110711)

Lab Sample ID: 240-1920-1

Date Sampled: 07/11/2011 1545

Client Matrix: Water

Date Received: 07/13/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-8795	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC6807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/18/2011 1554			Final Weight/Volume:	5 mL
Prep Date:	07/18/2011 1554				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.0		0.17	1.0
Trichlorofluoromethane	32		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	111		63 - 129
Toluene-d8 (Surr)	103		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-1920-2TB

Client Matrix: Water

Date Sampled: 07/11/2011 0000

Date Received: 07/13/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-8795

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC6808.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/18/2011 1617

Final Weight/Volume: 5 mL

Prep Date: 07/18/2011 1617

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.27	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-1920-2TB

Date Sampled: 07/11/2011 0000

Client Matrix: Water

Date Received: 07/13/2011 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-8795

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC6808.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/18/2011 1617

Final Weight/Volume: 5 mL

Prep Date: 07/18/2011 1617

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	109		63 - 129
Toluene-d8 (Surr)	101		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-1920-1

Client Sample ID: MW-107BH@235'(20110711)

Lab Sample ID: 240-1920-1

Date Sampled: 07/11/2011 1545

Client Matrix: Water

Date Received: 07/13/2011 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-9023	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-8571	Lab File ID:	I60719A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/19/2011 2358			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1001				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	49	J B	0.67	200
Boron	200	U	34	200
Calcium	50000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2100	J B	72	5000
Magnesium	33000		34	5000
Manganese	17		0.41	15
Sodium	4600	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20

Analysis Method:	6010B	Analysis Batch:	240-9189	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-8571	Lab File ID:	I60720A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/20/2011 1631			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1001				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lead	3.0	U	1.9	3.0

Analysis Method:	6010B	Analysis Batch:	180-9452	Instrument ID:	Q
Prep Method:	3005A	Prep Batch:	180-9197	Lab File ID:	Q10803B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/03/2011 1728			Final Weight/Volume:	50 mL
Prep Date:	08/02/2011 1105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9800		29	1100
Lithium	5.1	J	2.8	50

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-9505	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-9196	Lab File ID:	M10803A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/03/2011 1800			Final Weight/Volume:	50 mL
Prep Date:	08/02/2011 1105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	56		0.018	10

Client: TRW Automotive

Job Number: 240-1920-1

General Chemistry

Client Sample ID: MW-107BH@235'(20110711)

Lab Sample ID: 240-1920-1

Date Sampled: 07/11/2011 1545

Client Matrix: Water

Date Received: 07/13/2011 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.6		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-8357				Analysis Date: 07/14/2011 1008			
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-8356				Analysis Date: 07/14/2011 1008			
Fluoride-Dissolved	0.077	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-8357				Analysis Date: 07/14/2011 1008			
Nitrate as N-Dissolved	0.52	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-8356				Analysis Date: 07/14/2011 1008			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-8357				Analysis Date: 07/14/2011 1008			
Orthophosphate-Dissolved	0.58	H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-8356				Analysis Date: 07/14/2011 1008			
Sulfate-Dissolved	9.8		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-8357				Analysis Date: 07/14/2011 1008			
Bicarbonate Alkalinity as CaCO ₃	240		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-8495				Analysis Date: 07/14/2011 1510			
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-8495				Analysis Date: 07/14/2011 1510			
Total Phosphorus as PO ₄ -Dissolved	0.033	J	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-8638				Analysis Date: 07/15/2011 1506			
Prep Batch: 240-8560				Prep Date: 07/15/2011 0915			

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-1920-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS VOA					
Analysis Batch:240-8795					
LCS 240-8795/4	Lab Control Sample	T	Water	8260B	
MB 240-8795/5	Method Blank	T	Water	8260B	
240-1920-1	MW-107BH@235'(20110711)	T	Water	8260B	
240-1920-2TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-8571					
LCS 240-8571/2-A	Lab Control Sample	R	Water	3005A	
MB 240-8571/1-A	Method Blank	R	Water	3005A	
240-1920-1	MW-107BH@235'(20110711)	D	Water	3005A	
Analysis Batch:240-9023					
LCS 240-8571/2-A	Lab Control Sample	R	Water	6010B	240-8571
MB 240-8571/1-A	Method Blank	R	Water	6010B	240-8571
240-1920-1	MW-107BH@235'(20110711)	D	Water	6010B	240-8571
Analysis Batch:240-9189					
240-1920-1	MW-107BH@235'(20110711)	D	Water	6010B	240-8571
Prep Batch: 180-9196					
LCS 180-9196/2-A	Lab Control Sample	R	Water	3005A	
LCSD 180-9196/3-A	Lab Control Sample Duplicate	R	Water	3005A	
MB 180-9196/1-A	Method Blank	R	Water	3005A	
240-1920-1	MW-107BH@235'(20110711)	D	Water	3005A	
Prep Batch: 180-9197					
LCS 180-9197/2-A	Lab Control Sample	R	Water	3005A	
LCSD 180-9197/3-A	Lab Control Sample Duplicate	R	Water	3005A	
MB 180-9197/1-A	Method Blank	R	Water	3005A	
240-1920-1	MW-107BH@235'(20110711)	D	Water	3005A	
Analysis Batch:180-9452					
LCS 180-9197/2-A	Lab Control Sample	R	Water	6010B	180-9197
LCSD 180-9197/3-A	Lab Control Sample Duplicate	R	Water	6010B	180-9197
MB 180-9197/1-A	Method Blank	R	Water	6010B	180-9197
240-1920-1	MW-107BH@235'(20110711)	D	Water	6010B	180-9197
Analysis Batch:180-9505					
LCS 180-9196/2-A	Lab Control Sample	R	Water	6020	180-9196
LCSD 180-9196/3-A	Lab Control Sample Duplicate	R	Water	6020	180-9196
MB 180-9196/1-A	Method Blank	R	Water	6020	180-9196
240-1920-1	MW-107BH@235'(20110711)	D	Water	6020	180-9196

Report Basis

D = Dissolved

R = Total Recoverable

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-8356					
LCS 240-8356/6	Lab Control Sample	T	Water	9056A	
MB 240-8356/5	Method Blank	T	Water	9056A	
240-1920-1	MW-107BH@235'(20110711)	D	Water	9056A	
Analysis Batch:240-8357					
LCS 240-8357/6	Lab Control Sample	T	Water	9056A	
MB 240-8357/5	Method Blank	T	Water	9056A	
240-1920-1	MW-107BH@235'(20110711)	D	Water	9056A	
Analysis Batch:240-8495					
LCS 240-8495/4	Lab Control Sample	T	Water	SM 2320B	
MB 240-8495/5	Method Blank	T	Water	SM 2320B	
240-1920-1	MW-107BH@235'(20110711)	T	Water	SM 2320B	
240-1920-1DU	Duplicate	T	Water	SM 2320B	
Prep Batch: 240-8560					
LCS 240-8560/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-8560/10-A	Method Blank	T	Water	365.2/365.3/365	
240-1920-1	MW-107BH@235'(20110711)	D	Water	365.2/365.3/365	
Analysis Batch:240-8638					
LCS 240-8560/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-8560
MB 240-8560/10-A	Method Blank	T	Water	SM 4500 P E	240-8560
240-1920-1	MW-107BH@235'(20110711)	D	Water	SM 4500 P E	240-8560

Report Basis

D = Dissolved

T = Total

Client: TRW Automotive

Job Number: 240-1920-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-1920-1	MW-107BH@235'(20 110711)	90	95	111	103
240-1920-2	TRIP BLANK	88	95	109	101
MB 240-8795/5		92	99	107	106
LCS 240-8795/4		102	102	105	108

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 240-8795

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-8795/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/18/2011 1340
 Prep Date: 07/18/2011 1340
 Leach Date: N/A

Analysis Batch: 240-8795
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC6801.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 240-8795

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-8795/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/18/2011 1340
 Prep Date: 07/18/2011 1340
 Leach Date: N/A

Analysis Batch: 240-8795
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC6801.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	66 - 117
Dibromofluoromethane (Surr)	99	75 - 121
1,2-Dichloroethane-d4 (Surr)	107	63 - 129
Toluene-d8 (Surr)	106	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Lab Control Sample - Batch: 240-8795

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-8795/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/18/2011 1318
 Prep Date: 07/18/2011 1318
 Leach Date: N/A

Analysis Batch: 240-8795
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC6800.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	10.0	100	83 - 112	
Bromobenzene	10.0	10.7	107	76 - 115	
Bromoform	10.0	8.24	82	40 - 131	
Bromomethane	10.0	6.30	63	11 - 185	
Carbon tetrachloride	10.0	9.98	100	66 - 128	
Chlorobenzene	10.0	9.72	97	85 - 110	
Chloroethane	10.0	7.26	73	25 - 153	
Chloroform	10.0	10.7	107	79 - 117	
Chloromethane	10.0	6.13	61	44 - 126	
2-Chlorotoluene	10.0	10.6	106	76 - 116	
4-Chlorotoluene	10.0	10.7	107	77 - 115	
cis-1,2-Dichloroethene	10.0	10.2	102	80 - 113	
cis-1,3-Dichloropropene	10.0	9.27	93	61 - 115	
Dibromomethane	10.0	10.5	105	81 - 120	
1,2-Dichlorobenzene	10.0	9.11	91	81 - 110	
1,3-Dichlorobenzene	10.0	9.77	98	80 - 110	
1,4-Dichlorobenzene	10.0	9.42	94	82 - 110	
Bromodichloromethane	10.0	9.94	99	72 - 121	
Dichlorodifluoromethane	10.0	6.39	64	19 - 129	
1,1-Dichloroethane	10.0	10.3	103	82 - 115	
1,2-Dichloroethane	10.0	10.5	105	71 - 127	
1,1-Dichloroethene	10.0	10.9	109	78 - 131	
1,2-Dichloropropane	10.0	10.2	102	81 - 115	
1,3-Dichloropropane	10.0	10.4	104	79 - 116	
2,2-Dichloropropane	10.0	10.5	105	50 - 129	
1,1-Dichloropropene	10.0	10.5	105	83 - 114	
Ethylbenzene	10.0	10.1	101	83 - 112	
Hexachlorobutadiene	10.0	9.77	98	36 - 134	
Isopropylbenzene	10.0	10.0	100	75 - 114	
p-Isopropyltoluene	10.0	11.1	111	74 - 120	
Methylene Chloride	10.0	10.5	105	66 - 131	
m-Xylene & p-Xylene	20.0	20.7	104	83 - 113	
Naphthalene	10.0	10.6	106	32 - 141	
n-Butylbenzene	10.0	10.8	108	66 - 125	
N-Propylbenzene	10.0	11.5	115	74 - 121	
o-Xylene	10.0	10.1	101	83 - 113	
sec-Butylbenzene	10.0	10.9	109	70 - 117	
Styrene	10.0	10.0	100	79 - 114	
tert-Butylbenzene	10.0	11.0	110	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	9.98	100	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	10.7	107	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Lab Control Sample - Batch: 240-8795

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 240-8795/4	Analysis Batch:	240-8795	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC6800.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/18/2011 1318	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/18/2011 1318				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	10.1	101	79 - 114	
Toluene	10.0	10.3	103	84 - 111	
trans-1,2-Dichloroethene	10.0	10.5	105	83 - 117	
trans-1,3-Dichloropropene	10.0	9.80	98	58 - 117	
1,2,3-Trichlorobenzene	10.0	11.1	111	54 - 126	
1,2,4-Trichlorobenzene	10.0	9.96	100	48 - 135	
1,1,1-Trichloroethane	10.0	10.5	105	74 - 118	
1,1,2-Trichloroethane	10.0	10.1	101	80 - 112	
Trichloroethene	10.0	10.4	104	76 - 117	
Trichlorofluoromethane	10.0	9.70	97	49 - 157	
1,2,3-Trichloropropane	10.0	10.7	107	73 - 129	
1,2,4-Trimethylbenzene	10.0	11.0	110	76 - 120	
1,3,5-Trimethylbenzene	10.0	10.9	109	72 - 118	
Vinyl chloride	10.0	6.39	64	53 - 127	
Bromochloromethane	10.0	10.1	101	77 - 120	
1,2-Dibromoethane	10.0	10.3	103	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	102		66 - 117		
Dibromofluoromethane (Surr)	102		75 - 121		
1,2-Dichloroethane-d4 (Surr)	105		63 - 129		
Toluene-d8 (Surr)	108		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 240-8571

Lab Sample ID: MB 240-8571/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/19/2011 2233
 Prep Date: 07/15/2011 1001
 Leach Date: N/A

Analysis Batch: 240-9023
 Prep Batch: 240-8571
 Leach Batch: N/A
 Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I6
 Lab File ID: I60719A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	1.29	J	0.67	200
Boron	200	U	34	200
Calcium	391	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	139	J	72	5000
Magnesium	5000	U	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0

Lab Control Sample - Batch: 240-8571

Lab Sample ID: LCS 240-8571/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/19/2011 2239
 Prep Date: 07/15/2011 1001
 Leach Date: N/A

Analysis Batch: 240-9023
 Prep Batch: 240-8571
 Leach Batch: N/A
 Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I6
 Lab File ID: I60719A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2070	104	80 - 120	
Boron	1000	1040	104	80 - 120	
Calcium	50000	54000	108	80 - 120	
Chromium	200	214	107	80 - 120	
Iron	1000	1100	110	80 - 120	
Potassium	50000	50400	101	80 - 120	
Magnesium	50000	53100	106	80 - 120	
Manganese	500	523	105	80 - 120	
Sodium	50000	50000	100	80 - 120	
Nickel	500	505	101	80 - 120	
Zinc	500	555	111	80 - 120	
Lead	500	506	101	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 180-9197

Lab Sample ID: MB 180-9197/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 08/03/2011 1704
Prep Date: 08/02/2011 1105
Leach Date: N/A

Analysis Batch: 180-9452
Prep Batch: 180-9197
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: Q
Lab File ID: Q10803B.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
SiO2, Silica	1100	U	29	1100
Lithium	50	U	2.8	50

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 180-9197

Method: 6010B Preparation: 3005A Total Recoverable

LCS Lab Sample ID: LCS 180-9197/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 08/03/2011 1719
Prep Date: 08/02/2011 1105
Leach Date: N/A

Analysis Batch: 180-9452
Prep Batch: 180-9197
Leach Batch: N/A
Units: ug/L

Instrument ID: Q
Lab File ID: Q10803B.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 180-9197/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 08/03/2011 1724
Prep Date: 08/02/2011 1105
Leach Date: N/A

Analysis Batch: 180-9452
Prep Batch: 180-9197
Leach Batch: N/A
Units: ug/L

Instrument ID: Q
Lab File ID: Q10803B.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
SiO2, Silica	97	98	80 - 120	1	20		
Lithium	98	99	80 - 120	1	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 180-9196

Lab Sample ID: MB 180-9196/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/03/2011 1748
 Prep Date: 08/02/2011 1105
 Leach Date: N/A

Analysis Batch: 180-9505
 Prep Batch: 180-9196
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
 Lab File ID: M10803A.xml
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	10	U	0.018	10

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 180-9196

Method: 6020 Preparation: 3005A Total Recoverable

LCS Lab Sample ID: LCS 180-9196/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/03/2011 1752
 Prep Date: 08/02/2011 1105
 Leach Date: N/A

Analysis Batch: 180-9505
 Prep Batch: 180-9196
 Leach Batch: N/A
 Units: ug/L

Instrument ID: M
 Lab File ID: M10803A.xml
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 180-9196/3-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/03/2011 1756
 Prep Date: 08/02/2011 1105
 Leach Date: N/A

Analysis Batch: 180-9505
 Prep Batch: 180-9196
 Leach Batch: N/A
 Units: ug/L

Instrument ID: M
 Lab File ID: M10803A.xml
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Strontium	88	91	80 - 120	3	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 240-8356

Method: 9056A
Preparation: N/A

Lab Sample ID: MB 240-8356/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/14/2011 0841
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-8356
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: GARFUNKEL
Lab File ID: 5240-0001859-005.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-8356

Method: 9056A
Preparation: N/A

Lab Sample ID: LCS 240-8356/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/14/2011 0859
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-8356
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: GARFUNKEL
Lab File ID: 6240-0001859-006.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.43	97	90 - 110	
Nitrate as N-Dissolved	2.50	2.35	94	90 - 110	
Orthophosphate-Dissolved	2.50	2.44	98	90 - 110	

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 240-8357

Method: 9056A
Preparation: N/A

Lab Sample ID: MB 240-8357/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/14/2011 0841
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-8357
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: GARFUNKEL
Lab File ID: 5240-0001859-005.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-8357

Method: 9056A
Preparation: N/A

Lab Sample ID: LCS 240-8357/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/14/2011 0859
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-8357
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: GARFUNKEL
Lab File ID: 6240-0001859-006.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	49.8	100	90 - 110	
Fluoride-Dissolved	2.50	2.50	100	90 - 110	
Bromide-Dissolved	10.0	9.66	97	90 - 110	
Sulfate-Dissolved	50.0	47.8	96	90 - 110	

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 240-8495

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-8495/5	Analysis Batch:	240-8495	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	071411.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/14/2011 1221	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	4.34	J	2.7	5.0
Bicarbonate Alkalinity as CaCO3	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO3	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-8495

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-8495/4	Analysis Batch:	240-8495	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	071411.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/14/2011 1216	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	49.2	50.1	102	90 - 127	

Duplicate - Batch: 240-8495

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	240-1920-1	Analysis Batch:	240-8495	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	071411.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/14/2011 1521	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bicarbonate Alkalinity as CaCO3	240	251	5	20	
Carbonate Alkalinity as CaCO3	5.0 U	5.0	NC	20	U

Quality Control Results

Client: TRW Automotive

Job Number: 240-1920-1

Method Blank - Batch: 240-8560

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Lab Sample ID: MB 240-8560/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/15/2011 1506
Prep Date: 07/15/2011 0915
Leach Date: N/A

Analysis Batch: 240-8638
Prep Batch: 240-8560
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: PO4071511.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as PO4-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-8560

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Lab Sample ID: LCS 240-8560/11-A
Client Matrix: Water
Dilution: 10
Analysis Date: 07/15/2011 1537
Prep Date: 07/15/2011 0915
Leach Date: N/A

Analysis Batch: 240-8638
Prep Batch: 240-8560
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: PO4071511.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as PO4-Dissolved	5.43	5.84	108	53 - 134	

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: 240-1920

Client Breadis Project TRW By: Jill Clarke
Cooler Received on 7.13.11 Opened on 7.13.11 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐
TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
If YES, Quantity 1 Quantity Unsalvageable 0
Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
Were custody seals on the bottle(s)? Yes ☐ No ☒
If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☒ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 2.6 °C See back of form for multiple coolers/temps ☐
METHOD: IR ☒ Other ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐
Contacted PM DSP Date 7/13/11 by CSL via Verbal ☒ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

Received 1x vial labeled "Trip Blank" not listed on Coc
OK to log

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
<u>MW</u>	<u>2, 2, 2</u>	<u>7.13.11</u>	<u>J</u>

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

[illegible]

Discrepancies Cont'd:

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-1920-1

Login Number: 1920

List Source: TestAmerica North Canton

List Number: 1

Creator: Livengood, Chris

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.6
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-1920-1

Login Number: 1920

List Number: 1

Creator: Radzevick, Jaclyn

List Source: TestAmerica Pittsburgh

List Creation: 07/14/11 02:37 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

REVISED

PROJECT NO. KC001590.0003.00002

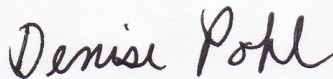
TRW OGV

Lot #: A0K160507

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
denise.pohl@testamericainc.com

Approved for release.
Denise Pohl
Project Manager
3/2/2011 9:17 AM

March 01, 2011

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720

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CASE NARRATIVE

CASE NARRATIVE

A0K160507

Revised

The following report contains the analytical results for one water sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGV Site, project number KC001590.0003.00002. The samples were received November 13, 2010, according to documented sample acceptance procedures.

Revised report includes sample id change. Per client sample id MW-3 BH@26' - 20101112 listed on chain of custody should be MW-108 BH@26' 20101112.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.2°C.

GC/MS VOLATILES

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0K160507

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-108 BH@26' 20101112 11/12/10 08:00 001				
Ethylbenzene	20	18	ug/L	SW846 8260B
Methylene chloride	43	18	ug/L	SW846 8260B
Toluene	580	18	ug/L	SW846 8260B
m-Xylene & p-Xylene	72	36	ug/L	SW846 8260B
o-Xylene	20	18	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0K160507

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0K160507

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
L95C6	001	MW-108	BH@26 ' 20101112	11/12/10	08:00
L95DT	002	TB-20101112		11/12/10	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

TestAmerica Knoxville *N. Canton*
 5915 Middlebrook Pike *4101 Shuffel Drive*
 Knoxville, TN 37921 *No exit CANTON, off 44720*
 Phone 865-201-3000 (Main) *330-966-9789*
 Phone 865-201-3031 (Receiving)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

14

Client Contact		Project Manager: Denise Pohl		Site Contact:		COC Record _____ of _____	
Company Name: ARCADIS		Tel/Mobile:		Lab Contact:		Carrier:	
Address: 8725 Rosehill St 350		Analysis Turnaround Time		Analysis (Attach list if more space is needed)		COC No: 01788	
City/State/Zip: LENEXA, KS 66215		Calendar (C) or Work Days (W) _____				Lab Use Only:	
Phone: (913) 492-0900		TAT if different from Below _____				Custody Seals Intact? Y N NA	
Project Name/Number: K001590.0003.00002		<input type="checkbox"/> 2 weeks				Number of Packages: _____	
Site: TRW OG V		<input type="checkbox"/> 1 week				Temperature: _____ deg C	
P O #		<input type="checkbox"/> 2 days		Shipper: __ FedEx __ UPS __ Other:			
Sampled by: Larry Benolkin		<input type="checkbox"/> 1 day		Tracking Number:			
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Recorded by: _____ Date: _____
MW-3 BH@26' - 20101112	11/12/2010	0800	Grab	Water	3		Sample Specific Notes: Decant samples before analysis
TB-2010112	"	—	"	"	2		
Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Na ₂ S ₂ O ₃ Other: 1d2							
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements & Comments: Samples have heavy sediment - allow settling time							
Relinquished by: Larry Benolkin		Company: ARCADIS		Date/Time: 11/12/10-1700		Received by: Larry Benolkin	
Relinquished by:		Company:		Date/Time:		Received by:	
Relinquished by:		Company:		Date/Time:		Received by:	

RETURN WHITE COPY TO LAB WITH SAMPLES
KEEP YELLOW COPY FOR YOUR RECORDS

TAL-0046-140 (08)

North Canton

TestAmerica Cooler Receipt Form/Narrative

Lot Number: 40K160507

North Canton Facility

Client Arca 815 Project TRW OGN By: Alain Schott

Cooler Received on 11/13/10 Opened on 11/15/10 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐

TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐

If YES, Quantity _____ Quantity Unsalvageable _____

Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐

Were custody seals on the bottle(s)? Yes ☐ No ☒

If YES, are there any exceptions? _____

2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐

3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐

4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other ☐

6. Cooler temperature upon receipt 2.2 °C See back of form for multiple coolers/temps ☐

METHOD: IR ☒ Other ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐

9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒

10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials? Yes ☒ No ☐ NA ☐

12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐

Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) 1x40 mLW-3 were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample

Receiving to meet recommended pH level(s). Nitric Acid Lot# 051010-HNO₃; Sulfuric Acid Lot# 051010-H₂SO₄; Sodium

Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-

(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

North Canton Facility

[illegible]

Discrepancies Cont'd:

[illegible]

GCMS VOLATILE DATA

TRW Automotive

Client Sample ID: MW-108 BH@26' 20101112

GC/MS Volatiles

Lot-Sample #...: A0K160507-001 Work Order #...: L95C61AA Matrix.....: SO
 Date Sampled...: 11/12/10 08:00 Date Received...: 11/13/10
 Prep Date.....: 11/26/10 Analysis Date...: 11/26/10
 Prep Batch #...: 0333325
 Dilution Factor: 18.18 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	18	ug/L
Bromobenzene	ND	18	ug/L
Bromochloromethane	ND	18	ug/L
Bromodichloromethane	ND	18	ug/L
Bromoform	ND	18	ug/L
Bromomethane	ND	18	ug/L
n-Butylbenzene	ND	18	ug/L
sec-Butylbenzene	ND	18	ug/L
tert-Butylbenzene	ND	18	ug/L
Carbon tetrachloride	ND	18	ug/L
Chlorobenzene	ND	18	ug/L
Dibromochloromethane	ND	18	ug/L
Chloroethane	ND	18	ug/L
Chloroform	ND	18	ug/L
Chloromethane	ND	18	ug/L
2-Chlorotoluene	ND	18	ug/L
4-Chlorotoluene	ND	18	ug/L
1,2-Dibromoethane	ND	18	ug/L
Dibromomethane	ND	18	ug/L
1,2-Dichlorobenzene	ND	18	ug/L
1,3-Dichlorobenzene	ND	18	ug/L
1,4-Dichlorobenzene	ND	18	ug/L
Dichlorodifluoromethane	ND	18	ug/L
1,1-Dichloroethane	ND	18	ug/L
1,2-Dichloroethane	ND	18	ug/L
cis-1,2-Dichloroethene	ND	18	ug/L
trans-1,2-Dichloroethene	ND	18	ug/L
1,1-Dichloroethene	ND	18	ug/L
Dichlorofluoromethane	ND	36	ug/L
1,2-Dichloropropane	ND	18	ug/L
1,3-Dichloropropane	ND	18	ug/L
2,2-Dichloropropane	ND	18	ug/L
cis-1,3-Dichloropropene	ND	18	ug/L
trans-1,3-Dichloropropene	ND	18	ug/L
1,1-Dichloropropene	ND	18	ug/L
Ethylbenzene	20	18	ug/L
Hexachlorobutadiene	ND	18	ug/L
Isopropylbenzene	ND	18	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108 BH@26' 20101112

GC/MS Volatiles

Lot-Sample #...: A0K160507-001 Work Order #...: L95C61AA Matrix.....: SO

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	18	ug/L
Methylene chloride	43	18	ug/L
Naphthalene	ND	18	ug/L
n-Propylbenzene	ND	18	ug/L
Styrene	ND	18	ug/L
1,1,1,2-Tetrachloroethane	ND	18	ug/L
1,1,2,2-Tetrachloroethane	ND	18	ug/L
Tetrachloroethene	ND	18	ug/L
Toluene	580	18	ug/L
1,2,3-Trichlorobenzene	ND	18	ug/L
1,2,4-Trichloro- benzene	ND	18	ug/L
1,1,1-Trichloroethane	ND	18	ug/L
1,1,2-Trichloroethane	ND	18	ug/L
Trichloroethene	ND	18	ug/L
Trichlorofluoromethane	ND	18	ug/L
1,2,3-Trichloropropane	ND	18	ug/L
1,2,4-Trimethylbenzene	ND	18	ug/L
1,3,5-Trimethylbenzene	ND	18	ug/L
Vinyl chloride	ND	18	ug/L
m-Xylene & p-Xylene	72	36	ug/L
o-Xylene	20	18	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	85	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	95	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)

TRW Automotive

Client Sample ID: TB-20101112

GC/MS Volatiles

Lot-Sample #...: A0K160507-002 Work Order #...: L95DT1AA Matrix.....: WQ
 Date Sampled...: 11/12/10 Date Received...: 11/13/10
 Prep Date.....: 11/26/10 Analysis Date...: 11/26/10
 Prep Batch #...: 0333325
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB-20101112

GC/MS Volatiles

Lot-Sample #...: A0K160507-002 Work Order #...: L95DT1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	84	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K160507
MB Lot-Sample #: A0K290000-325

Work Order #...: MALVF1AA

Matrix.....: WATER

Analysis Date...: 11/26/10

Prep Date.....: 11/26/10

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 0333325

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K160507

Work Order #...: MALVF1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	88		(75 - 121)	
1,2-Dichloroethane-d4	80		(63 - 129)	
Toluene-d8	87		(74 - 115)	
4-Bromofluorobenzene	101		(66 - 117)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: MALVF1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD
 Prep Date.....: 11/26/10 Analysis Date...: 11/26/10
 Prep Batch #...: 0333325
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	96	(83 - 112)			SW846 8260B
	97	(83 - 112)	1.4	(0-30)	SW846 8260B
Acetone	67	(43 - 136)			SW846 8260B
	70	(43 - 136)	4.1	(0-30)	SW846 8260B
Bromobenzene	89	(76 - 115)			SW846 8260B
	87	(76 - 115)	2.4	(0-30)	SW846 8260B
Carbon disulfide	117	(62 - 142)			SW846 8260B
	121	(62 - 142)	3.6	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	97	(82 - 114)			SW846 8260B
	100	(82 - 114)	3.4	(0-30)	SW846 8260B
Bromochloromethane	97	(77 - 120)			SW846 8260B
	97	(77 - 120)	0.020	(0-30)	SW846 8260B
2-Butanone	71	(60 - 126)			SW846 8260B
	68	(60 - 126)	3.7	(0-30)	SW846 8260B
Bromodichloromethane	92	(72 - 121)			SW846 8260B
	90	(72 - 121)	1.8	(0-30)	SW846 8260B
Bromoform	85	(40 - 131)			SW846 8260B
	84	(40 - 131)	1.6	(0-30)	SW846 8260B
Bromomethane	81	(11 - 185)			SW846 8260B
	98	(11 - 185)	19	(0-30)	SW846 8260B
n-Butylbenzene	105	(66 - 125)			SW846 8260B
	105	(66 - 125)	0.62	(0-30)	SW846 8260B
4-Methyl-2-pentanone	77	(63 - 128)			SW846 8260B
	75	(63 - 128)	3.3	(0-30)	SW846 8260B
2-Hexanone	76	(55 - 133)			SW846 8260B
	71	(55 - 133)	6.5	(0-30)	SW846 8260B
sec-Butylbenzene	98	(70 - 117)			SW846 8260B
	98	(70 - 117)	0.10	(0-30)	SW846 8260B
tert-Butylbenzene	91	(71 - 115)			SW846 8260B
	90	(71 - 115)	1.7	(0-30)	SW846 8260B
Xylenes (total)	100	(83 - 112)			SW846 8260B
	102	(83 - 112)	2.8	(0-30)	SW846 8260B
Carbon tetrachloride	105	(66 - 128)			SW846 8260B
	107	(66 - 128)	2.4	(0-30)	SW846 8260B
Chlorobenzene	96	(85 - 110)			SW846 8260B
	98	(85 - 110)	2.1	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: MALVF1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromochloromethane	89	(64 - 119)			SW846 8260B
	88	(64 - 119)	1.1	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	121	(74 - 151)			SW846 8260B
	121	(74 - 151)	0.0	(0-30)	SW846 8260B
Methyl acetate	80	(58 - 131)			SW846 8260B
	79	(58 - 131)	1.2	(0-30)	SW846 8260B
Chloroethane	95	(25 - 153)			SW846 8260B
	103	(25 - 153)	8.6	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	86	(52 - 144)			SW846 8260B
	89	(52 - 144)	2.8	(0-30)	SW846 8260B
Cyclohexane	100	(54 - 121)			SW846 8260B
	102	(54 - 121)	1.6	(0-30)	SW846 8260B
Methylcyclohexane	96	(56 - 127)			SW846 8260B
	98	(56 - 127)	2.0	(0-30)	SW846 8260B
Chloroform	96	(79 - 117)			SW846 8260B
	99	(79 - 117)	2.4	(0-30)	SW846 8260B
Chloromethane	102	(44 - 126)			SW846 8260B
	103	(44 - 126)	1.2	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	97	(42 - 136)			SW846 8260B
	97	(42 - 136)	0.010	(0-30)	SW846 8260B
2-Chlorotoluene	92	(76 - 116)			SW846 8260B
	90	(76 - 116)	1.6	(0-30)	SW846 8260B
Methyl tert-butyl ether	86	(52 - 144)			SW846 8260B
	89	(52 - 144)	2.8	(0-30)	SW846 8260B
n-Hexane	99	(66 - 137)			SW846 8260B
	100	(66 - 137)	1.5	(0-30)	SW846 8260B
4-Chlorotoluene	92	(77 - 115)			SW846 8260B
	91	(77 - 115)	1.2	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	76	(52 - 131)			SW846 8260B
	73	(52 - 131)	4.1	(0-30)	SW846 8260B
1,2-Dibromoethane	91	(79 - 113)			SW846 8260B
	90	(79 - 113)	0.89	(0-30)	SW846 8260B
Vinyl acetate	97	(46 - 161)			SW846 8260B
	99	(46 - 161)	1.6	(0-30)	SW846 8260B
Dibromomethane	96	(81 - 120)			SW846 8260B
	96	(81 - 120)	0.35	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: MALVF1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichlorobenzene	101	(81 - 110)			SW846 8260B
	101	(81 - 110)	0.50	(0-30)	SW846 8260B
1,3-Dichlorobenzene	97	(80 - 110)			SW846 8260B
	97	(80 - 110)	0.090	(0-30)	SW846 8260B
1,4-Dichlorobenzene	95	(82 - 110)			SW846 8260B
	95	(82 - 110)	0.22	(0-30)	SW846 8260B
Iodomethane	118	(72 - 141)			SW846 8260B
	127	(72 - 141)	7.6	(0-30)	SW846 8260B
Isopropyl ether	94	(77 - 118)			SW846 8260B
	94	(77 - 118)	0.44	(0-30)	SW846 8260B
Dichlorodifluoromethane	95	(19 - 129)			SW846 8260B
	97	(19 - 129)	2.1	(0-30)	SW846 8260B
1,1-Dichloroethane	98	(82 - 115)			SW846 8260B
	99	(82 - 115)	1.1	(0-30)	SW846 8260B
1,2-Dichloroethane	90	(71 - 127)			SW846 8260B
	90	(71 - 127)	0.54	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	96	(80 - 113)			SW846 8260B
	99	(80 - 113)	2.4	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	97	(83 - 117)			SW846 8260B
	102	(83 - 117)	4.4	(0-30)	SW846 8260B
1,1-Dichloroethene	101	(78 - 131)			SW846 8260B
	104	(78 - 131)	2.9	(0-30)	SW846 8260B
1,2-Dichloropropane	96	(81 - 115)			SW846 8260B
	96	(81 - 115)	0.48	(0-30)	SW846 8260B
1,3-Dichloropropane	92	(79 - 116)			SW846 8260B
	92	(79 - 116)	0.080	(0-30)	SW846 8260B
2,2-Dichloropropane	91	(50 - 129)			SW846 8260B
	95	(50 - 129)	4.2	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	86	(61 - 115)			SW846 8260B
	85	(61 - 115)	0.64	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	88	(58 - 117)			SW846 8260B
	87	(58 - 117)	0.70	(0-30)	SW846 8260B
1,1-Dichloropropene	93	(83 - 114)			SW846 8260B
	95	(83 - 114)	1.2	(0-30)	SW846 8260B
Ethylbenzene	97	(83 - 112)			SW846 8260B
	98	(83 - 112)	1.2	(0-30)	SW846 8260B
Hexachlorobutadiene	100	(36 - 134)			SW846 8260B
	103	(36 - 134)	3.2	(0-30)	SW846 8260B
Isopropylbenzene	103	(75 - 114)			SW846 8260B
	106	(75 - 114)	3.0	(0-30)	SW846 8260B
p-Isopropyltoluene	104	(74 - 120)			SW846 8260B
	103	(74 - 120)	1.0	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: MALVF1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methylene chloride	101	(66 - 131)			SW846 8260B
	103	(66 - 131)	2.3	(0-30)	SW846 8260B
Naphthalene	103	(32 - 141)			SW846 8260B
	106	(32 - 141)	2.7	(0-30)	SW846 8260B
n-Propylbenzene	94	(74 - 121)			SW846 8260B
	91	(74 - 121)	2.9	(0-30)	SW846 8260B
Styrene	104	(79 - 114)			SW846 8260B
	105	(79 - 114)	1.6	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(72 - 116)			SW846 8260B
	101	(72 - 116)	4.5	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	92	(68 - 118)			SW846 8260B
	89	(68 - 118)	3.6	(0-30)	SW846 8260B
Tetrachloroethene	93	(79 - 114)			SW846 8260B
	96	(79 - 114)	3.2	(0-30)	SW846 8260B
Toluene	94	(84 - 111)			SW846 8260B
	96	(84 - 111)	2.3	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	106	(54 - 126)			SW846 8260B
	108	(54 - 126)	1.1	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	108	(48 - 135)			SW846 8260B
	110	(48 - 135)	1.4	(0-30)	SW846 8260B
1,1,1-Trichloroethane	97	(74 - 118)			SW846 8260B
	101	(74 - 118)	4.4	(0-30)	SW846 8260B
1,1,2-Trichloroethane	95	(80 - 112)			SW846 8260B
	95	(80 - 112)	0.14	(0-30)	SW846 8260B
Trichloroethene	92	(76 - 117)			SW846 8260B
	94	(76 - 117)	2.4	(0-20)	SW846 8260B
Trichlorofluoromethane	113	(49 - 157)			SW846 8260B
	128	(49 - 157)	13	(0-30)	SW846 8260B
1,2,3-Trichloropropane	87	(73 - 129)			SW846 8260B
	83	(73 - 129)	5.1	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	102	(76 - 120)			SW846 8260B
	101	(76 - 120)	1.3	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	96	(72 - 118)			SW846 8260B
	95	(72 - 118)	1.1	(0-30)	SW846 8260B
Vinyl chloride	102	(53 - 127)			SW846 8260B
	104	(53 - 127)	1.8	(0-30)	SW846 8260B
m-Xylene & p-Xylene	99	(83 - 113)			SW846 8260B
	101	(83 - 113)	2.2	(0-30)	SW846 8260B
o-Xylene	102	(83 - 113)			SW846 8260B
	106	(83 - 113)	3.8	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: MALVF1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
	92	(75 - 121)
1,2-Dichloroethane-d4	81	(63 - 129)
	87	(63 - 129)
Toluene-d8	92	(74 - 115)
	93	(74 - 115)
4-Bromofluorobenzene	109	(66 - 117)
	109	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: MALVF1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD
 Prep Date.....: 11/26/10 Analysis Date...: 11/26/10
 Prep Batch #...: 0333325
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	10	9.6	ug/L	96		SW846 8260B
	10	9.7	ug/L	97	1.4	SW846 8260B
Acetone	20	13	ug/L	67		SW846 8260B
	20	14	ug/L	70	4.1	SW846 8260B
Bromobenzene	10	8.9	ug/L	89		SW846 8260B
	10	8.7	ug/L	87	2.4	SW846 8260B
Carbon disulfide	10	12	ug/L	117		SW846 8260B
	10	12	ug/L	121	3.6	SW846 8260B
1,2-Dichloroethene (total)	20	19	ug/L	97		SW846 8260B
	20	20	ug/L	100	3.4	SW846 8260B
Bromochloromethane	10	9.7	ug/L	97		SW846 8260B
	10	9.7	ug/L	97	0.020	SW846 8260B
2-Butanone	20	14	ug/L	71		SW846 8260B
	20	14	ug/L	68	3.7	SW846 8260B
Bromodichloromethane	10	9.2	ug/L	92		SW846 8260B
	10	9.0	ug/L	90	1.8	SW846 8260B
Bromoform	10	8.5	ug/L	85		SW846 8260B
	10	8.4	ug/L	84	1.6	SW846 8260B
Bromomethane	10	8.1	ug/L	81		SW846 8260B
	10	9.8	ug/L	98	19	SW846 8260B
n-Butylbenzene	10	11	ug/L	105		SW846 8260B
	10	10	ug/L	105	0.62	SW846 8260B
4-Methyl-2-pentanone	20	15	ug/L	77		SW846 8260B
	20	15	ug/L	75	3.3	SW846 8260B
2-Hexanone	20	15	ug/L	76		SW846 8260B
	20	14	ug/L	71	6.5	SW846 8260B
sec-Butylbenzene	10	9.8	ug/L	98		SW846 8260B
	10	9.8	ug/L	98	0.10	SW846 8260B
tert-Butylbenzene	10	9.1	ug/L	91		SW846 8260B
	10	9.0	ug/L	90	1.7	SW846 8260B
Xylenes (total)	30	30	ug/L	100		SW846 8260B
	30	31	ug/L	102	2.8	SW846 8260B
Carbon tetrachloride	10	10	ug/L	105		SW846 8260B
	10	11	ug/L	107	2.4	SW846 8260B
Chlorobenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.8	ug/L	98	2.1	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 **Work Order #...**: MALVF1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Dibromochloromethane	10	8.9	ug/L	89		SW846 8260B
	10	8.8	ug/L	88	1.1	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	12	ug/L	121		SW846 8260B
	10	12	ug/L	121	0.0	SW846 8260B
Methyl acetate	10	8.0	ug/L	80		SW846 8260B
	10	7.9	ug/L	79	1.2	SW846 8260B
Chloroethane	10	9.5	ug/L	95		SW846 8260B
	10	10	ug/L	103	8.6	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	8.6	ug/L	86		SW846 8260B
	10	8.9	ug/L	89	2.8	SW846 8260B
Cyclohexane	10	10	ug/L	100		SW846 8260B
	10	10	ug/L	102	1.6	SW846 8260B
Methylcyclohexane	10	9.6	ug/L	96		SW846 8260B
	10	9.8	ug/L	98	2.0	SW846 8260B
Chloroform	10	9.6	ug/L	96		SW846 8260B
	10	9.9	ug/L	99	2.4	SW846 8260B
Chloromethane	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	103	1.2	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.7	ug/L	97		SW846 8260B
	10	9.7	ug/L	97	0.010	SW846 8260B
2-Chlorotoluene	10	9.2	ug/L	92		SW846 8260B
	10	9.0	ug/L	90	1.6	SW846 8260B
Methyl tert-butyl ether	10	8.6	ug/L	86		SW846 8260B
	10	8.9	ug/L	89	2.8	SW846 8260B
n-Hexane	10	9.9	ug/L	99		SW846 8260B
	10	10	ug/L	100	1.5	SW846 8260B
4-Chlorotoluene	10	9.2	ug/L	92		SW846 8260B
	10	9.1	ug/L	91	1.2	SW846 8260B
2-Chloroethyl vinyl ether	10	7.6	ug/L	76		SW846 8260B
	10	7.3	ug/L	73	4.1	SW846 8260B
1,2-Dibromoethane	10	9.1	ug/L	91		SW846 8260B
	10	9.0	ug/L	90	0.89	SW846 8260B
Vinyl acetate	10	9.7	ug/L	97		SW846 8260B
	10	9.9	ug/L	99	1.6	SW846 8260B
Dibromomethane	10	9.6	ug/L	96		SW846 8260B
	10	9.6	ug/L	96	0.35	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 **Work Order #...**: MALVF1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
1,2-Dichlorobenzene	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	101	0.50	SW846 8260B
1,3-Dichlorobenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.7	ug/L	97	0.090	SW846 8260B
1,4-Dichlorobenzene	10	9.5	ug/L	95		SW846 8260B
	10	9.5	ug/L	95	0.22	SW846 8260B
Iodomethane	10	12	ug/L	118		SW846 8260B
	10	13	ug/L	127	7.6	SW846 8260B
Isopropyl ether	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.44	SW846 8260B
Dichlorodifluoromethane	10	9.5	ug/L	95		SW846 8260B
	10	9.7	ug/L	97	2.1	SW846 8260B
1,1-Dichloroethane	10	9.8	ug/L	98		SW846 8260B
	10	9.9	ug/L	99	1.1	SW846 8260B
1,2-Dichloroethane	10	9.0	ug/L	90		SW846 8260B
	10	9.0	ug/L	90	0.54	SW846 8260B
cis-1,2-Dichloroethene	10	9.6	ug/L	96		SW846 8260B
	10	9.9	ug/L	99	2.4	SW846 8260B
trans-1,2-Dichloroethene	10	9.7	ug/L	97		SW846 8260B
	10	10	ug/L	102	4.4	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	104	2.9	SW846 8260B
1,2-Dichloropropane	10	9.6	ug/L	96		SW846 8260B
	10	9.6	ug/L	96	0.48	SW846 8260B
1,3-Dichloropropane	10	9.2	ug/L	92		SW846 8260B
	10	9.2	ug/L	92	0.080	SW846 8260B
2,2-Dichloropropane	10	9.1	ug/L	91		SW846 8260B
	10	9.5	ug/L	95	4.2	SW846 8260B
cis-1,3-Dichloropropene	10	8.6	ug/L	86		SW846 8260B
	10	8.5	ug/L	85	0.64	SW846 8260B
trans-1,3-Dichloropropene	10	8.8	ug/L	88		SW846 8260B
	10	8.7	ug/L	87	0.70	SW846 8260B
1,1-Dichloropropene	10	9.3	ug/L	93		SW846 8260B
	10	9.5	ug/L	95	1.2	SW846 8260B
Ethylbenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.8	ug/L	98	1.2	SW846 8260B
Hexachlorobutadiene	10	10	ug/L	100		SW846 8260B
	10	10	ug/L	103	3.2	SW846 8260B
Isopropylbenzene	10	10	ug/L	103		SW846 8260B
	10	11	ug/L	106	3.0	SW846 8260B
p-Isopropyltoluene	10	10	ug/L	104		SW846 8260B
	10	10	ug/L	103	1.0	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: MALVF1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Methylene chloride	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	103	2.3	SW846 8260B
Naphthalene	10	10	ug/L	103		SW846 8260B
	10	11	ug/L	106	2.7	SW846 8260B
n-Propylbenzene	10	9.4	ug/L	94		SW846 8260B
	10	9.1	ug/L	91	2.9	SW846 8260B
Styrene	10	10	ug/L	104		SW846 8260B
	10	11	ug/L	105	1.6	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.6	ug/L	96		SW846 8260B
	10	10	ug/L	101	4.5	SW846 8260B
1,1,2,2-Tetrachloroethane	10	9.2	ug/L	92		SW846 8260B
	10	8.9	ug/L	89	3.6	SW846 8260B
Tetrachloroethene	10	9.3	ug/L	93		SW846 8260B
	10	9.6	ug/L	96	3.2	SW846 8260B
Toluene	10	9.4	ug/L	94		SW846 8260B
	10	9.6	ug/L	96	2.3	SW846 8260B
1,2,3-Trichlorobenzene	10	11	ug/L	106		SW846 8260B
	10	11	ug/L	108	1.1	SW846 8260B
1,2,4-Trichloro- benzene	10	11	ug/L	108		SW846 8260B
	10	11	ug/L	110	1.4	SW846 8260B
1,1,1-Trichloroethane	10	9.7	ug/L	97		SW846 8260B
	10	10	ug/L	101	4.4	SW846 8260B
1,1,2-Trichloroethane	10	9.5	ug/L	95		SW846 8260B
	10	9.5	ug/L	95	0.14	SW846 8260B
Trichloroethene	10	9.2	ug/L	92		SW846 8260B
	10	9.4	ug/L	94	2.4	SW846 8260B
Trichlorofluoromethane	10	11	ug/L	113		SW846 8260B
	10	13	ug/L	128	13	SW846 8260B
1,2,3-Trichloropropane	10	8.7	ug/L	87		SW846 8260B
	10	8.3	ug/L	83	5.1	SW846 8260B
1,2,4-Trimethylbenzene	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	101	1.3	SW846 8260B
1,3,5-Trimethylbenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.5	ug/L	95	1.1	SW846 8260B
Vinyl chloride	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	104	1.8	SW846 8260B
m-Xylene & p-Xylene	20	20	ug/L	99		SW846 8260B
	20	20	ug/L	101	2.2	SW846 8260B
o-Xylene	10	10	ug/L	102		SW846 8260B
	10	11	ug/L	106	3.8	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: MALVF1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0K290000-325 MALVF1AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
	92	(75 - 121)
1,2-Dichloroethane-d4	81	(63 - 129)
	87	(63 - 129)
Toluene-d8	92	(74 - 115)
	93	(74 - 115)
4-Bromofluorobenzene	109	(66 - 117)
	109	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
 MS Lot-Sample #: A0K150407-005 L92091AP-MSD
 Date Sampled...: 11/12/10 15:20 Date Received...: 11/13/10
 Prep Date.....: 11/26/10 Analysis Date...: 11/26/10
 Prep Batch #...: 0333325
 Dilution Factor: 10 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	94	(72 - 121)			SW846 8260B
	96	(72 - 121)	2.0	(0-30)	SW846 8260B
Bromobenzene	87	(71 - 116)			SW846 8260B
	90	(71 - 116)	2.9	(0-30)	SW846 8260B
Acetone	74	(33 - 145)			SW846 8260B
	76	(33 - 145)	2.7	(0-30)	SW846 8260B
Carbon disulfide	122	(57 - 147)			SW846 8260B
	120	(57 - 147)	1.4	(0-30)	SW846 8260B
Bromochloromethane	94	(73 - 121)			SW846 8260B
	96	(73 - 121)	2.0	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	98	(75 - 119)			SW846 8260B
	98	(75 - 119)	0.97	(0-30)	SW846 8260B
Bromodichloromethane	88	(67 - 120)			SW846 8260B
	92	(67 - 120)	4.4	(0-30)	SW846 8260B
2-Butanone	67	(54 - 129)			SW846 8260B
	72	(54 - 129)	7.4	(0-30)	SW846 8260B
Bromoform	79	(32 - 128)			SW846 8260B
	84	(32 - 128)	6.2	(0-30)	SW846 8260B
Bromomethane	96	(10 - 186)			SW846 8260B
	83	(10 - 186)	15	(0-30)	SW846 8260B
n-Butylbenzene	100	(56 - 127)			SW846 8260B
	103	(56 - 127)	2.9	(0-30)	SW846 8260B
4-Methyl-2-pentanone	71	(56 - 131)			SW846 8260B
	79	(56 - 131)	11	(0-30)	SW846 8260B
sec-Butylbenzene	95	(60 - 119)			SW846 8260B
	98	(60 - 119)	3.2	(0-30)	SW846 8260B
2-Hexanone	68	(47 - 139)			SW846 8260B
	75	(47 - 139)	9.6	(0-30)	SW846 8260B
tert-Butylbenzene	89	(61 - 119)			SW846 8260B
	92	(61 - 119)	3.2	(0-30)	SW846 8260B
Carbon tetrachloride	103	(59 - 129)			SW846 8260B
	104	(59 - 129)	0.82	(0-30)	SW846 8260B
Xylenes (total)	100	(76 - 116)			SW846 8260B
	101	(76 - 116)	0.88	(0-30)	SW846 8260B
Chlorobenzene	95	(80 - 110)			SW846 8260B
	98	(80 - 110)	3.0	(0-30)	SW846 8260B
Dibromochloromethane	82	(56 - 118)			SW846 8260B
	88	(56 - 118)	6.6	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
MS Lot-Sample #: A0K150407-005 L92091AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	118	(70 - 152)			SW846 8260B
	120	(70 - 152)	1.8	(0-30)	SW846 8260B
Methyl acetate	79	(47 - 130)			SW846 8260B
	80	(47 - 130)	0.77	(0-30)	SW846 8260B
Chloroethane	100	(21 - 165)			SW846 8260B
	96	(21 - 165)	3.7	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	85	(46 - 144)			SW846 8260B
	87	(46 - 144)	2.2	(0-30)	SW846 8260B
Cyclohexane	98	(49 - 123)			SW846 8260B
	101	(49 - 123)	2.7	(0-30)	SW846 8260B
Methylcyclohexane	94	(49 - 127)			SW846 8260B
	98	(49 - 127)	3.9	(0-30)	SW846 8260B
Chloroform	96	(76 - 118)			SW846 8260B
	96	(76 - 118)	0.06	(0-30)	SW846 8260B
Chloromethane	95	(33 - 132)			SW846 8260B
	100	(33 - 132)	4.3	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	85	(32 - 139)			SW846 8260B
	92	(32 - 139)	8.1	(0-30)	SW846 8260B
2-Chlorotoluene	88	(69 - 117)			SW846 8260B
	92	(69 - 117)	3.5	(0-30)	SW846 8260B
Methyl tert-butyl ether	85	(46 - 144)			SW846 8260B
	87	(46 - 144)	2.2	(0-30)	SW846 8260B
n-Hexane	95	(54 - 138)			SW846 8260B
	101	(54 - 138)	6.0	(0-30)	SW846 8260B
4-Chlorotoluene	89	(71 - 116)			SW846 8260B
	93	(71 - 116)	3.8	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
1,2-Dibromoethane	85	(74 - 113)			SW846 8260B
	92	(74 - 113)	8.7	(0-30)	SW846 8260B
Vinyl acetate	99	(43 - 157)			SW846 8260B
	107	(43 - 157)	8.2	(0-30)	SW846 8260B
Dibromomethane	90	(77 - 121)			SW846 8260B
	97	(77 - 121)	7.5	(0-30)	SW846 8260B
1,2-Dichlorobenzene	98	(75 - 111)			SW846 8260B
	100	(75 - 111)	2.1	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
MS Lot-Sample #: A0K150407-005 L92091AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	95	(73 - 110)			SW846 8260B
	97	(73 - 110)	2.4	(0-30)	SW846 8260B
1,4-Dichlorobenzene	94	(75 - 110)			SW846 8260B
	95	(75 - 110)	2.1	(0-30)	SW846 8260B
Iodomethane	125	(66 - 144)			SW846 8260B
	122	(66 - 144)	2.3	(0-30)	SW846 8260B
Isopropyl ether	92	(73 - 118)			SW846 8260B
	94	(73 - 118)	2.4	(0-30)	SW846 8260B
Dichlorodifluoromethane	92	(17 - 128)			SW846 8260B
	95	(17 - 128)	3.7	(0-30)	SW846 8260B
1,1-Dichloroethane	97	(79 - 116)			SW846 8260B
	98	(79 - 116)	0.75	(0-30)	SW846 8260B
1,2-Dichloroethane	87	(68 - 129)			SW846 8260B
	90	(68 - 129)	3.9	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	97	(70 - 120)			SW846 8260B
	98	(70 - 120)	1.2	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	99	(80 - 119)			SW846 8260B
	99	(80 - 119)	0.77	(0-30)	SW846 8260B
1,1-Dichloroethene	98	(74 - 135)			SW846 8260B
	101	(74 - 135)	3.4	(0-30)	SW846 8260B
1,2-Dichloropropane	93	(78 - 115)			SW846 8260B
	97	(78 - 115)	3.6	(0-30)	SW846 8260B
1,3-Dichloropropane	87	(74 - 118)			SW846 8260B
	93	(74 - 118)	6.3	(0-30)	SW846 8260B
2,2-Dichloropropane	90	(38 - 127)			SW846 8260B
	89	(38 - 127)	0.52	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	77	(51 - 110)			SW846 8260B
	84	(51 - 110)	9.2	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	81	(46 - 116)			SW846 8260B
	90	(46 - 116)	9.9	(0-30)	SW846 8260B
1,1-Dichloropropene	94	(80 - 114)			SW846 8260B
	94	(80 - 114)	0.30	(0-30)	SW846 8260B
Ethylbenzene	96	(75 - 116)			SW846 8260B
	97	(75 - 116)	0.93	(0-30)	SW846 8260B
Hexachlorobutadiene	93	(27 - 132)			SW846 8260B
	96	(27 - 132)	3.6	(0-30)	SW846 8260B
Isopropylbenzene	103	(68 - 116)			SW846 8260B
	103	(68 - 116)	0.34	(0-30)	SW846 8260B
p-Isopropyltoluene	100	(64 - 122)			SW846 8260B
	103	(64 - 122)	3.3	(0-30)	SW846 8260B
Methylene chloride	102	(63 - 128)			SW846 8260B
	104	(63 - 128)	1.0	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
MS Lot-Sample #: A0K150407-005 L92091AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	87	(15 - 158)			SW846 8260B
	97	(15 - 158)	11	(0-30)	SW846 8260B
n-Propylbenzene	90	(64 - 124)			SW846 8260B
	93	(64 - 124)	3.3	(0-30)	SW846 8260B
Styrene	103	(71 - 117)			SW846 8260B
	104	(71 - 117)	1.0	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	98	(64 - 118)			SW846 8260B
	98	(64 - 118)	0.24	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	85	(63 - 122)			SW846 8260B
	90	(63 - 122)	5.8	(0-30)	SW846 8260B
Tetrachloroethene	94	(70 - 117)			SW846 8260B
	95	(70 - 117)	1.2	(0-30)	SW846 8260B
Toluene	95	(78 - 114)			SW846 8260B
	96	(78 - 114)	0.31	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	90	(45 - 129)			SW846 8260B
	98	(45 - 129)	8.5	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	97	(38 - 138)			SW846 8260B
	103	(38 - 138)	5.4	(0-30)	SW846 8260B
1,1,1-Trichloroethane	92	(68 - 121)			SW846 8260B
	85	(68 - 121)	1.4	(0-30)	SW846 8260B
1,1,2-Trichloroethane	93	(75 - 115)			SW846 8260B
	96	(75 - 115)	3.4	(0-30)	SW846 8260B
Trichloroethene	93	(66 - 120)			SW846 8260B
	94	(66 - 120)	1.7	(0-30)	SW846 8260B
Trichlorofluoromethane	118	(46 - 157)			SW846 8260B
	106	(46 - 157)	11	(0-30)	SW846 8260B
1,2,3-Trichloropropane	79	(67 - 132)			SW846 8260B
	86	(67 - 132)	8.3	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	99	(67 - 124)			SW846 8260B
	102	(67 - 124)	2.8	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	94	(63 - 121)			SW846 8260B
	96	(63 - 121)	2.8	(0-30)	SW846 8260B
Vinyl chloride	100	(49 - 130)			SW846 8260B
	103	(49 - 130)	3.5	(0-30)	SW846 8260B
m-Xylene & p-Xylene	98	(75 - 117)			SW846 8260B
	100	(75 - 117)	1.4	(0-30)	SW846 8260B
o-Xylene	103	(76 - 116)			SW846 8260B
	103	(76 - 116)	0.11	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
MS Lot-Sample #: A0K150407-005 L92091AP-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
	90	(75 - 121)
1,2-Dichloroethane-d4	80	(63 - 129)
	85	(63 - 129)
Toluene-d8	92	(74 - 115)
	92	(74 - 115)
4-Bromofluorobenzene	108	(66 - 117)
	106	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
 MS Lot-Sample #: A0K150407-005 L92091AP-MSD
 Date Sampled...: 11/12/10 15:20 Date Received...: 11/13/10
 Prep Date.....: 11/26/10 Analysis Date...: 11/26/10
 Prep Batch #...: 0333325
 Dilution Factor: 10 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

	SAMPLE	SPIKE	MEASRD		PERCNT			
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD	
Benzene	ND	100	94	ug/L	94		SW846	8260B
	ND	100	96	ug/L	96	2.0	SW846	8260B
Bromobenzene	ND	100	87	ug/L	87		SW846	8260B
	ND	100	90	ug/L	90	2.9	SW846	8260B
Acetone	ND	200	150	ug/L	74		SW846	8260B
	ND	200	150	ug/L	76	2.7	SW846	8260B
Carbon disulfide	ND	100	120	ug/L	122		SW846	8260B
	ND	100	120	ug/L	120	1.4	SW846	8260B
Bromochloromethane	ND	100	94	ug/L	94		SW846	8260B
	ND	100	96	ug/L	96	2.0	SW846	8260B
1,2-Dichloroethene (total)	ND	200	200	ug/L	98		SW846	8260B
	ND	200	200	ug/L	98	0.97	SW846	8260B
Bromodichloromethane	ND	100	88	ug/L	88		SW846	8260B
	ND	100	92	ug/L	92	4.4	SW846	8260B
2-Butanone	ND	200	130	ug/L	67		SW846	8260B
	ND	200	140	ug/L	72	7.4	SW846	8260B
Bromoform	ND	100	79	ug/L	79		SW846	8260B
	ND	100	84	ug/L	84	6.2	SW846	8260B
Bromomethane	ND	100	96	ug/L	96		SW846	8260B
	ND	100	83	ug/L	83	15	SW846	8260B
n-Butylbenzene	ND	100	100	ug/L	100		SW846	8260B
	ND	100	100	ug/L	103	2.9	SW846	8260B
4-Methyl-2-pentanone	ND	200	140	ug/L	71		SW846	8260B
	ND	200	160	ug/L	79	11	SW846	8260B
sec-Butylbenzene	ND	100	95	ug/L	95		SW846	8260B
	ND	100	98	ug/L	98	3.2	SW846	8260B
2-Hexanone	ND	200	140	ug/L	68		SW846	8260B
	ND	200	150	ug/L	75	9.6	SW846	8260B
tert-Butylbenzene	ND	100	89	ug/L	89		SW846	8260B
	ND	100	92	ug/L	92	3.2	SW846	8260B
Carbon tetrachloride	ND	100	100	ug/L	103		SW846	8260B
	ND	100	100	ug/L	104	0.82	SW846	8260B
Xylenes (total)	ND	300	300	ug/L	100		SW846	8260B
	ND	300	300	ug/L	101	0.88	SW846	8260B
Chlorobenzene	ND	100	95	ug/L	95		SW846	8260B
	ND	100	98	ug/L	98	3.0	SW846	8260B
Dibromochloromethane	ND	100	82	ug/L	82		SW846	8260B
	ND	100	88	ug/L	88	6.6	SW846	8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
MS Lot-Sample #: A0K150407-005 L92091AP-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	100	120	ug/L	118		SW846 8260B
	ND	100	120	ug/L	120	1.8	SW846 8260B
Methyl acetate	ND	100	79	ug/L	79		SW846 8260B
	ND	100	80	ug/L	80	0.77	SW846 8260B
Chloroethane	ND	100	100	ug/L	100		SW846 8260B
	ND	100	96	ug/L	96	3.7	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	100	85	ug/L	85		SW846 8260B
	ND	100	87	ug/L	87	2.2	SW846 8260B
Cyclohexane	ND	100	98	ug/L	98		SW846 8260B
	ND	100	100	ug/L	101	2.7	SW846 8260B
Methylcyclohexane	ND	100	94	ug/L	94		SW846 8260B
	ND	100	98	ug/L	98	3.9	SW846 8260B
Chloroform	ND	100	96	ug/L	96		SW846 8260B
	ND	100	96	ug/L	96	0.06	SW846 8260B
Chloromethane	ND	100	95	ug/L	95		SW846 8260B
	ND	100	100	ug/L	100	4.3	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	100	85	ug/L	85		SW846 8260B
	ND	100	92	ug/L	92	8.1	SW846 8260B
2-Chlorotoluene	ND	100	88	ug/L	88		SW846 8260B
	ND	100	92	ug/L	92	3.5	SW846 8260B
Methyl tert-butyl ether	ND	100	85	ug/L	85		SW846 8260B
	ND	100	87	ug/L	87	2.2	SW846 8260B
n-Hexane	ND	100	95	ug/L	95		SW846 8260B
	ND	100	100	ug/L	101	6.0	SW846 8260B
4-Chlorotoluene	ND	100	89	ug/L	89		SW846 8260B
	ND	100	93	ug/L	93	3.8	SW846 8260B
2-Chloroethyl vinyl ether	ND	100	0.0	ug/L	0.0 a		SW846 8260B
	ND	100	0.0	ug/L	0.0 a	0.0	SW846 8260B
1,2-Dibromoethane	ND	100	85	ug/L	85		SW846 8260B
	ND	100	92	ug/L	92	8.7	SW846 8260B
Vinyl acetate	ND	100	99	ug/L	99		SW846 8260B
	ND	100	110	ug/L	107	8.2	SW846 8260B
Dibromomethane	ND	100	90	ug/L	90		SW846 8260B
	ND	100	97	ug/L	97	7.5	SW846 8260B
1,2-Dichlorobenzene	ND	100	98	ug/L	98		SW846 8260B
	ND	100	100	ug/L	100	2.1	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
MS Lot-Sample #: A0K150407-005 L92091AP-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,3-Dichlorobenzene	ND	100	95	ug/L	95		SW846 8260B
	ND	100	97	ug/L	97	2.4	SW846 8260B
1,4-Dichlorobenzene	ND	100	94	ug/L	94		SW846 8260B
	ND	100	95	ug/L	95	2.1	SW846 8260B
Iodomethane	ND	100	120	ug/L	125		SW846 8260B
	ND	100	120	ug/L	122	2.3	SW846 8260B
Isopropyl ether	ND	100	92	ug/L	92		SW846 8260B
	ND	100	94	ug/L	94	2.4	SW846 8260B
Dichlorodifluoromethane	ND	100	92	ug/L	92		SW846 8260B
	ND	100	95	ug/L	95	3.7	SW846 8260B
1,1-Dichloroethane	29	100	130	ug/L	97		SW846 8260B
	29	100	130	ug/L	98	0.75	SW846 8260B
1,2-Dichloroethane	ND	100	87	ug/L	87		SW846 8260B
	ND	100	90	ug/L	90	3.9	SW846 8260B
cis-1,2-Dichloroethene	ND	100	97	ug/L	97		SW846 8260B
	ND	100	98	ug/L	98	1.2	SW846 8260B
trans-1,2-Dichloroethene	ND	100	99	ug/L	99		SW846 8260B
	ND	100	99	ug/L	99	0.77	SW846 8260B
1,1-Dichloroethene	13	100	110	ug/L	98		SW846 8260B
	13	100	110	ug/L	101	3.4	SW846 8260B
1,2-Dichloropropane	ND	100	93	ug/L	93		SW846 8260B
	ND	100	97	ug/L	97	3.6	SW846 8260B
1,3-Dichloropropane	ND	100	87	ug/L	87		SW846 8260B
	ND	100	93	ug/L	93	6.3	SW846 8260B
2,2-Dichloropropane	ND	100	90	ug/L	90		SW846 8260B
	ND	100	89	ug/L	89	0.52	SW846 8260B
cis-1,3-Dichloropropene	ND	100	77	ug/L	77		SW846 8260B
	ND	100	84	ug/L	84	9.2	SW846 8260B
trans-1,3-Dichloropropene	ND	100	81	ug/L	81		SW846 8260B
	ND	100	90	ug/L	90	9.9	SW846 8260B
1,1-Dichloropropene	ND	100	94	ug/L	94		SW846 8260B
	ND	100	94	ug/L	94	0.30	SW846 8260B
Ethylbenzene	ND	100	96	ug/L	96		SW846 8260B
	ND	100	97	ug/L	97	0.93	SW846 8260B
Hexachlorobutadiene	ND	100	93	ug/L	93		SW846 8260B
	ND	100	96	ug/L	96	3.6	SW846 8260B
Isopropylbenzene	ND	100	100	ug/L	103		SW846 8260B
	ND	100	100	ug/L	103	0.34	SW846 8260B
p-Isopropyltoluene	ND	100	100	ug/L	100		SW846 8260B
	ND	100	100	ug/L	103	3.3	SW846 8260B
Methylene chloride	ND	100	100	ug/L	102		SW846 8260B
	ND	100	100	ug/L	104	1.0	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
MS Lot-Sample #: A0K150407-005 L92091AP-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Naphthalene	ND	100	87	ug/L	87		SW846 8260B
	ND	100	97	ug/L	97	11	SW846 8260B
n-Propylbenzene	ND	100	90	ug/L	90		SW846 8260B
	ND	100	93	ug/L	93	3.3	SW846 8260B
Styrene	ND	100	100	ug/L	103		SW846 8260B
	ND	100	100	ug/L	104	1.0	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	100	98	ug/L	98		SW846 8260B
	ND	100	98	ug/L	98	0.24	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	85	ug/L	85		SW846 8260B
	ND	100	90	ug/L	90	5.8	SW846 8260B
Tetrachloroethene	ND	100	94	ug/L	94		SW846 8260B
	ND	100	95	ug/L	95	1.2	SW846 8260B
Toluene	ND	100	95	ug/L	95		SW846 8260B
	ND	100	96	ug/L	96	0.31	SW846 8260B
1,2,3-Trichlorobenzene	ND	100	90	ug/L	90		SW846 8260B
	ND	100	98	ug/L	98	8.5	SW846 8260B
1,2,4-Trichloro- benzene	ND	100	97	ug/L	97		SW846 8260B
	ND	100	100	ug/L	103	5.4	SW846 8260B
1,1,1-Trichloroethane	370	100	460	ug/L	92		SW846 8260B
	370	100	450	ug/L	85	1.4	SW846 8260B
1,1,2-Trichloroethane	ND	100	93	ug/L	93		SW846 8260B
	ND	100	96	ug/L	96	3.4	SW846 8260B
Trichloroethene	ND	100	93	ug/L	93		SW846 8260B
	ND	100	94	ug/L	94	1.7	SW846 8260B
Trichlorofluoromethane	ND	100	120	ug/L	118		SW846 8260B
	ND	100	110	ug/L	106	11	SW846 8260B
1,2,3-Trichloropropane	ND	100	79	ug/L	79		SW846 8260B
	ND	100	86	ug/L	86	8.3	SW846 8260B
1,2,4-Trimethylbenzene	ND	100	99	ug/L	99		SW846 8260B
	ND	100	100	ug/L	102	2.8	SW846 8260B
1,3,5-Trimethylbenzene	ND	100	94	ug/L	94		SW846 8260B
	ND	100	96	ug/L	96	2.8	SW846 8260B
Vinyl chloride	ND	100	100	ug/L	100		SW846 8260B
	ND	100	100	ug/L	103	3.5	SW846 8260B
m-Xylene & p-Xylene	ND	200	200	ug/L	98		SW846 8260B
	ND	200	200	ug/L	100	1.4	SW846 8260B
o-Xylene	ND	100	100	ug/L	103		SW846 8260B
	ND	100	100	ug/L	103	0.11	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160507 Work Order #...: L92091AN-MS Matrix.....: WATER
MS Lot-Sample #: A0K150407-005 L92091AP-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
	90	(75 - 121)
1,2-Dichloroethane-d4	80	(63 - 129)
	85	(63 - 129)
Toluene-d8	92	(74 - 115)
	92	(74 - 115)
4-Bromofluorobenzene	108	(66 - 117)
	106	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

END OF REPORT

ANALYTICAL REPORT

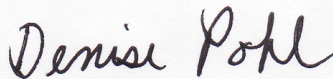
TRW OGV

Lot #: A0K160527

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
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Approved for release.
Denise Pohl
Project Manager
12/6/2010 1:16 PM

December 06, 2010

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com



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CASE NARRATIVE

CASE NARRATIVE

A0K160527

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGV Site. The sample was received November 12, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.6°C.

GC/MS VOLATILES

Result concentration exceeds the calibration range. Refer to the sample report pages for the affected compound(s) flagged with "E".

The matrix spike/matrix spike duplicate(s) for IDW SOIL-20101111 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 0326427 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

METALS

The matrix spike/matrix spike duplicate(s) for batch(es) 0321019 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

No ICP Trace Form IX provided for batch(es)0321019. The serial dilution was performed on a different sample from the same QC batch(es).

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0K160527

<u>PARAMETER</u>				<u>REPORTING</u>	<u>ANALYTICAL</u>
				<u>LIMIT</u>	<u>METHOD</u>
				<u>UNITS</u>	
IDW SOIL-20101111 11/11/10 14:00 001					
Arsenic				5.1	1.1
					mg/kg
Lead				19.3	0.34
					mg/kg
Barium				209	22.7
					mg/kg
Chromium				31.8	1.1
					mg/kg
Naphthalene				71	5.7
					ug/kg
Toluene				9.4	5.7
					ug/kg
Percent Solids				88.1	10.0
					%
					MCAWW 160.3 MOD

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0K160527

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Paint Filter Test	SW846 9095A
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0K160527

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
L95MH	001	IDW	SOIL-20101111	11/11/10	14:00

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

[illegible]

North Canton

TestAmerica Cooler Receipt Form/Narrative

Lot Number: 405160527

North Canton Facility

Client ARCADIS Project TRW 097 By: [Signature]

Cooler Received on 11-12-10 Opened on 11-12-10 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐

TestAmerica Cooler # Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒

If YES, Quantity Quantity Unsalvageable

Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒

Were custody seals on the bottle(s)? Yes ☐ No ☒

If YES, are there any exceptions?

2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐

3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☐ No ☐

4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other

6. Cooler temperature upon receipt 3.6 °C See back of form for multiple coolers/temps ☐

METHOD: IR ☒ Other ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐

9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒

10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒

12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐

Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample

Receiving to meet recommended pH level(s). Nitric Acid Lot# 051010-HNO₃; Sulfuric Acid Lot# 051010-H₂SO₄; Sodium

Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-

(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

[illegible]

GCMS VOLATILE DATA

TRW Automotive

Client Sample ID: IDW SOIL-20101111

GC/MS Volatiles

Lot-Sample #...: A0K160527-001 Work Order #...: L95MH1AA Matrix.....: SO
 Date Sampled...: 11/11/10 14:00 Date Received...: 11/12/10
 Prep Date.....: 11/22/10 Analysis Date...: 11/22/10
 Prep Batch #...: 0326504
 Dilution Factor: 1 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 12 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	5.7	ug/kg
Bromobenzene	ND	5.7	ug/kg
Bromochloromethane	ND	5.7	ug/kg
Bromodichloromethane	ND	5.7	ug/kg
Bromoform	ND	5.7	ug/kg
Bromomethane	ND	5.7	ug/kg
n-Butylbenzene	ND	5.7	ug/kg
sec-Butylbenzene	ND	5.7	ug/kg
tert-Butylbenzene	ND	5.7	ug/kg
Carbon tetrachloride	ND	5.7	ug/kg
Chlorobenzene	ND	5.7	ug/kg
Dibromochloromethane	ND	5.7	ug/kg
Chloroethane	ND	5.7	ug/kg
Chloroform	ND	5.7	ug/kg
Chloromethane	ND	5.7	ug/kg
2-Chlorotoluene	ND	5.7	ug/kg
4-Chlorotoluene	ND	5.7	ug/kg
1,2-Dibromoethane	ND	5.7	ug/kg
Dibromomethane	ND	5.7	ug/kg
1,2-Dichlorobenzene	ND	5.7	ug/kg
1,3-Dichlorobenzene	ND	5.7	ug/kg
1,4-Dichlorobenzene	ND	5.7	ug/kg
Dichlorodifluoromethane	ND	5.7	ug/kg
1,1-Dichloroethane	ND	5.7	ug/kg
1,2-Dichloroethane	ND	5.7	ug/kg
cis-1,2-Dichloroethene	ND	5.7	ug/kg
trans-1,2-Dichloroethene	ND	5.7	ug/kg
1,1-Dichloroethene	ND	5.7	ug/kg
Dichlorofluoromethane	ND	11	ug/kg
1,2-Dichloropropane	ND	5.7	ug/kg
1,3-Dichloropropane	ND	5.7	ug/kg
2,2-Dichloropropane	ND	5.7	ug/kg
cis-1,3-Dichloropropene	ND	5.7	ug/kg
trans-1,3-Dichloropropene	ND	5.7	ug/kg
1,1-Dichloropropene	ND	5.7	ug/kg
Ethylbenzene	ND	5.7	ug/kg
Hexachlorobutadiene	ND	5.7	ug/kg
Isopropylbenzene	ND	5.7	ug/kg

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TRW Automotive

Client Sample ID: IDW SOIL-20101111

GC/MS Volatiles

Lot-Sample #...: A0K160527-001 Work Order #...: L95MH1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	5.7	ug/kg
Methylene chloride	ND	5.7	ug/kg
Naphthalene	71	5.7	ug/kg
n-Propylbenzene	ND	5.7	ug/kg
Styrene	ND	5.7	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
Tetrachloroethene	ND	5.7	ug/kg
Toluene	9.4	5.7	ug/kg
1,2,3-Trichlorobenzene	ND	5.7	ug/kg
1,2,4-Trichloro- benzene	ND	5.7	ug/kg
1,1,1-Trichloroethane	ND	5.7	ug/kg
1,1,2-Trichloroethane	ND	5.7	ug/kg
Trichloroethene	ND	5.7	ug/kg
Trichlorofluoromethane	ND	5.7	ug/kg
1,2,3-Trichloropropane	ND	5.7	ug/kg
1,2,4-Trimethylbenzene	ND	5.7	ug/kg
1,3,5-Trimethylbenzene	ND	5.7	ug/kg
Vinyl chloride	ND	5.7	ug/kg
m-Xylene & p-Xylene	ND	11	ug/kg
o-Xylene	ND	5.7	ug/kg

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	106	(37 - 132)
Toluene-d8	109	(67 - 125)
4-Bromofluorobenzene	82	(52 - 136)
1,2-Dichloroethane-d4	79	(58 - 123)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

TRW Automotive

Client Sample ID: IDW SOIL-20101111

TCLP GC/MS Volatiles

Lot-Sample #...: A0K160527-001 Work Order #...: L95MH1AD Matrix.....: SO
 Date Sampled...: 11/11/10 14:00 Date Received...: 11/12/10
 Leach Date.....: 11/19/10 Prep Date.....: 11/23/10 Analysis Date...: 11/23/10
 Leach Batch #...: P032201 Prep Batch #...: 0326427
 Dilution Factor: 1 Initial Wgt/Vol: 0.1 mL Final Wgt/Vol...: 5 mL
 % Moisture.....: 12 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	0.025	mg/L
2-Butanone (MEK)	ND	0.25	mg/L
Carbon tetrachloride	ND	0.025	mg/L
Chlorobenzene	ND	0.025	mg/L
Chloroform	ND	0.025	mg/L
1,2-Dichloroethane	ND	0.025	mg/L
1,1-Dichloroethylene	ND	0.070	mg/L
Tetrachloroethylene	ND	0.070	mg/L
Trichloroethylene	ND	0.050	mg/L
Vinyl chloride	ND	0.025	mg/L

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	95		(86 - 125)	
1,2-Dichloroethane-d4	89		(80 - 121)	
Toluene-d8	96		(90 - 115)	
4-Bromofluorobenzene	87		(70 - 124)	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: A0K160527	Work Order #...: L97TL1AA	Matrix.....: WASTE
MB Lot-Sample #: A0K180000-067		
Leach Date.....: 11/19/10	Prep Date.....: 11/22/10	Analysis Date...: 11/22/10
Leach Batch #...: P032201	Prep Batch #...: 0326427	Final Wgt/Vol...: 5 mL
Dilution Factor: 1	Initial Wgt/Vol: 0.1 mL	

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260B
2-Butanone (MEK)	ND	0.25	mg/L	SW846 8260B
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260B
Chlorobenzene	ND	0.025	mg/L	SW846 8260B
Chloroform	ND	0.025	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260B
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260B
Tetrachloroethylene	ND	0.070	mg/L	SW846 8260B
Trichloroethylene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.025	mg/L	SW846 8260B

SURROGATE	PERCENT	
	RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(86 - 125)
1,2-Dichloroethane-d4	91	(80 - 121)
Toluene-d8	96	(90 - 115)
4-Bromofluorobenzene	88	(70 - 124)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K160527
MB Lot-Sample #: A0K220000-504

Work Order #...: MAFG51AA

Matrix.....: SOLID

Analysis Date...: 11/22/10

Prep Date.....: 11/22/10

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 0326504

Initial Wgt/Vol: 5 g

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	5.0	ug/kg	SW846	8260B
Bromobenzene	ND	5.0	ug/kg	SW846	8260B
Bromochloromethane	ND	5.0	ug/kg	SW846	8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846	8260B
Bromoform	ND	5.0	ug/kg	SW846	8260B
Bromomethane	ND	5.0	ug/kg	SW846	8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846	8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846	8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846	8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846	8260B
Chlorobenzene	ND	5.0	ug/kg	SW846	8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846	8260B
Chloroethane	ND	5.0	ug/kg	SW846	8260B
Chloroform	ND	5.0	ug/kg	SW846	8260B
Chloromethane	ND	5.0	ug/kg	SW846	8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846	8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846	8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846	8260B
Dibromomethane	ND	5.0	ug/kg	SW846	8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846	8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846	8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846	8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846	8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846	8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846	8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846	8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846	8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846	8260B
Dichlorofluoromethane	ND	10	ug/kg	SW846	8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846	8260B
1,3-Dichloropropane	ND	5.0	ug/kg	SW846	8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846	8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846	8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846	8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846	8260B
Ethylbenzene	ND	5.0	ug/kg	SW846	8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846	8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846	8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846	8260B
Methylene chloride	ND	5.0	ug/kg	SW846	8260B
Naphthalene	ND	5.0	ug/kg	SW846	8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K160527

Work Order #...: MAFG51AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trichloro- benzene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	10	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT</u>		<u>RECOVERY</u>	
	<u>RECOVERY</u>		<u>LIMITS</u>	
Dibromofluoromethane	96		(37 - 132)	
Toluene-d8	99		(67 - 125)	
4-Bromofluorobenzene	82		(52 - 136)	
1,2-Dichloroethane-d4	84		(58 - 123)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAE6R1AA Matrix.....: WASTE
 LCS Lot-Sample#: A0K220000-427
 Prep Date.....: 11/22/10 Analysis Date...: 11/22/10
 Prep Batch #...: 0326427
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 0.1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	97	(84 - 120)	SW846 8260B
Chloromethane	65	(43 - 125)	SW846 8260B
2-Butanone (MEK)	95	(49 - 120)	SW846 8260B
Bromomethane	76	(23 - 128)	SW846 8260B
Carbon tetrachloride	82	(54 - 122)	SW846 8260B
Chlorobenzene	98	(86 - 111)	SW846 8260B
Chloroform	96	(87 - 123)	SW846 8260B
Chloroethane	76	(22 - 129)	SW846 8260B
1,2-Dichloroethane	93	(81 - 114)	SW846 8260B
1,1-Dichloroethylene	88	(71 - 133)	SW846 8260B
Methylene chloride	89	(40 - 141)	SW846 8260B
Tetrachloroethylene	103	(79 - 134)	SW846 8260B
Acetone	97	(30 - 129)	SW846 8260B
Trichloroethylene	100	(78 - 130)	SW846 8260B
Vinyl chloride	79	(56 - 111)	SW846 8260B
Carbon disulfide	94	(63 - 142)	SW846 8260B
1,1-Dichloroethane	98	(86 - 117)	SW846 8260B
1,2-Dichloroethene	97	(79 - 117)	SW846 8260B
(total)			
1,1,1-Trichloroethane	93	(69 - 118)	SW846 8260B
Bromodichloromethane	90	(67 - 123)	SW846 8260B
1,2-Dichloropropane	99	(85 - 113)	SW846 8260B
cis-1,3-Dichloropropene	84	(45 - 122)	SW846 8260B
Dibromochloromethane	82	(55 - 116)	SW846 8260B
1,1,2-Trichloroethane	100	(84 - 112)	SW846 8260B
trans-1,3-Dichloropropene	87	(28 - 130)	SW846 8260B
Bromoform	71	(45 - 115)	SW846 8260B
4-Methyl-2-pentanone	94	(53 - 127)	SW846 8260B
2-Hexanone	101	(43 - 135)	SW846 8260B
1,1,2,2-Tetrachloroethane	95	(60 - 128)	SW846 8260B
Toluene	103	(87 - 116)	SW846 8260B
Ethylbenzene	102	(79 - 119)	SW846 8260B
Styrene	99	(63 - 129)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAE6R1AA Matrix.....: WASTE
 LCS Lot-Sample#: A0K220000-427

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Xylenes (total)	102	(79 - 120)	SW846 8260B
cis-1,2-Dichloroethene	97	(80 - 114)	SW846 8260B
trans-1,2-Dichloroethene	97	(76 - 122)	SW846 8260B
n-Hexane	89	(64 - 147)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	94	(84 - 128)
1,2-Dichloroethane-d4	87	(80 - 121)
Toluene-d8	100	(90 - 115)
4-Bromofluorobenzene	95	(70 - 124)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAE6R1AA Matrix.....: WASTE
 LCS Lot-Sample#: A0K220000-427
 Prep Date.....: 11/22/10 Analysis Date...: 11/22/10
 Prep Batch #...: 0326427
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 0.1 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	1.0	0.97	mg/L	97	SW846 8260B
Chloromethane	1.0	0.65	mg/L	65	SW846 8260B
2-Butanone (MEK)	2.0	1.9	mg/L	95	SW846 8260B
Bromomethane	1.0	0.76	mg/L	76	SW846 8260B
Carbon tetrachloride	1.0	0.82	mg/L	82	SW846 8260B
Chlorobenzene	1.0	0.98	mg/L	98	SW846 8260B
Chloroform	1.0	0.96	mg/L	96	SW846 8260B
Chloroethane	1.0	0.76	mg/L	76	SW846 8260B
1,2-Dichloroethane	1.0	0.93	mg/L	93	SW846 8260B
1,1-Dichloroethylene	1.0	0.88	mg/L	88	SW846 8260B
Methylene chloride	1.0	0.89	mg/L	89	SW846 8260B
Tetrachloroethylene	1.0	1.0	mg/L	103	SW846 8260B
Acetone	2.0	1.9	mg/L	97	SW846 8260B
Trichloroethylene	1.0	1.0	mg/L	100	SW846 8260B
Vinyl chloride	1.0	0.79	mg/L	79	SW846 8260B
Carbon disulfide	1.0	0.94	mg/L	94	SW846 8260B
1,1-Dichloroethane	1.0	0.98	mg/L	98	SW846 8260B
1,2-Dichloroethene (total)	2.0	1.9	mg/L	97	SW846 8260B
1,1,1-Trichloroethane	1.0	0.93	mg/L	93	SW846 8260B
Bromodichloromethane	1.0	0.90	mg/L	90	SW846 8260B
1,2-Dichloropropane	1.0	0.99	mg/L	99	SW846 8260B
cis-1,3-Dichloropropene	1.0	0.84	mg/L	84	SW846 8260B
Dibromochloromethane	1.0	0.82	mg/L	82	SW846 8260B
1,1,2-Trichloroethane	1.0	1.0	mg/L	100	SW846 8260B
trans-1,3-Dichloropropene	1.0	0.87	mg/L	87	SW846 8260B
Bromoform	1.0	0.71	mg/L	71	SW846 8260B
4-Methyl-2-pentanone	2.0	1.9	mg/L	94	SW846 8260B
2-Hexanone	2.0	2.0	mg/L	101	SW846 8260B
1,1,2,2-Tetrachloroethane	1.0	0.95	mg/L	95	SW846 8260B
Toluene	1.0	1.0	mg/L	103	SW846 8260B
Ethylbenzene	1.0	1.0	mg/L	102	SW846 8260B
Styrene	1.0	0.99	mg/L	99	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAE6R1AA Matrix.....: WASTE
 LCS Lot-Sample#: A0K220000-427

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Xylenes (total)	3.0	3.1	mg/L	102	SW846 8260B
cis-1,2-Dichloroethene	1.0	0.97	mg/L	97	SW846 8260B
trans-1,2-Dichloroethene	1.0	0.97	mg/L	97	SW846 8260B
n-Hexane	1.0	0.89	mg/L	89	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	94	(84 - 128)
1,2-Dichloroethane-d4	87	(80 - 121)
Toluene-d8	100	(90 - 115)
4-Bromofluorobenzene	95	(70 - 124)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD
 Prep Date.....: 11/21/10 Analysis Date...: 11/21/10
 Prep Batch #...: 0326504
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	96	(79 - 112)			SW846 8260B
	95	(79 - 112)	1.1	(0-30)	SW846 8260B
Acetone	74	(41 - 137)			SW846 8260B
	77	(41 - 137)	4.8	(0-30)	SW846 8260B
Bromobenzene	93	(81 - 115)			SW846 8260B
	97	(81 - 115)	4.1	(0-30)	SW846 8260B
Carbon disulfide	126	(62 - 146)			SW846 8260B
	114	(62 - 146)	10	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	96	(78 - 115)			SW846 8260B
	93	(78 - 115)	2.3	(0-30)	SW846 8260B
Bromochloromethane	100	(79 - 111)			SW846 8260B
	103	(79 - 111)	3.0	(0-30)	SW846 8260B
2-Butanone	69	(52 - 131)			SW846 8260B
	74	(52 - 131)	6.7	(0-30)	SW846 8260B
Bromodichloromethane	104	(84 - 122)			SW846 8260B
	103	(84 - 122)	0.86	(0-30)	SW846 8260B
Bromoform	113	(62 - 133)			SW846 8260B
	114	(62 - 133)	0.94	(0-30)	SW846 8260B
Bromomethane	99	(42 - 136)			SW846 8260B
	90	(42 - 136)	9.8	(0-30)	SW846 8260B
n-Butylbenzene	95	(68 - 135)			SW846 8260B
	92	(68 - 135)	2.7	(0-30)	SW846 8260B
4-Methyl-2-pentanone	79	(67 - 135)			SW846 8260B
	85	(67 - 135)	8.1	(0-30)	SW846 8260B
2-Hexanone	76	(64 - 136)			SW846 8260B
	84	(64 - 136)	10	(0-30)	SW846 8260B
sec-Butylbenzene	101	(74 - 129)			SW846 8260B
	98	(74 - 129)	2.9	(0-30)	SW846 8260B
tert-Butylbenzene	100	(76 - 126)			SW846 8260B
	102	(76 - 126)	1.6	(0-30)	SW846 8260B
Xylenes (total)	103	(80 - 118)			SW846 8260B
	102	(80 - 118)	0.91	(0-30)	SW846 8260B
Carbon tetrachloride	107	(71 - 129)			SW846 8260B
	100	(71 - 129)	7.3	(0-30)	SW846 8260B
Chlorobenzene	95	(78 - 110)			SW846 8260B
	95	(78 - 110)	0.66	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
n-Hexane	112	(86 - 134)			SW846 8260B
	105	(86 - 134)	6.2	(0-30)	SW846 8260B
Dibromochloromethane	110	(72 - 127)			SW846 8260B
	115	(72 - 127)	4.1	(0-30)	SW846 8260B
Methyl tert-butyl ether	93	(49 - 165)			SW846 8260B
	93	(49 - 165)	0.15	(0-30)	SW846 8260B
Cyclohexane	93	(66 - 110)			SW846 8260B
	83	(66 - 110)	12	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	88	(61 - 132)			SW846 8260B
	93	(61 - 132)	6.2	(0-30)	SW846 8260B
Chloroethane	108	(58 - 117)			SW846 8260B
	93	(58 - 117)	15	(0-30)	SW846 8260B
Chloroform	93	(77 - 114)			SW846 8260B
	93	(77 - 114)	0.15	(0-30)	SW846 8260B
Chloromethane	76	(50 - 110)			SW846 8260B
	69	(50 - 110)	9.7	(0-30)	SW846 8260B
Trichlorotrifluoroethane	126	(82 - 138)			SW846 8260B
	113	(82 - 138)	11	(0-30)	SW846 8260B
Methyl acetate	68	(57 - 130)			SW846 8260B
	72	(57 - 130)	5.6	(0-30)	SW846 8260B
2-Chlorotoluene	96	(78 - 119)			SW846 8260B
	97	(78 - 119)	1.2	(0-30)	SW846 8260B
Methylcyclohexane	106	(70 - 126)			SW846 8260B
	97	(70 - 126)	8.5	(0-30)	SW846 8260B
4-Chlorotoluene	95	(79 - 118)			SW846 8260B
	98	(79 - 118)	2.8	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	50	(28 - 173)			SW846 8260B
	58	(28 - 173)	15	(0-30)	SW846 8260B
Acetonitrile	70	(47 - 152)			SW846 8260B
	70	(47 - 152)	1.1	(0-30)	SW846 8260B
Acrolein	64	(52 - 146)			SW846 8260B
	66	(52 - 146)	3.4	(0-30)	SW846 8260B
1,2-Dibromoethane	97	(83 - 117)			SW846 8260B
	100	(83 - 117)	4.0	(0-30)	SW846 8260B
Acrylonitrile	77	(62 - 127)			SW846 8260B
	80	(62 - 127)	4.7	(0-30)	SW846 8260B
Dibromomethane	98	(85 - 120)			SW846 8260B
	100	(85 - 120)	2.1	(0-30)	SW846 8260B
1,2-Dichlorobenzene	95	(76 - 110)			SW846 8260B
	98	(76 - 110)	2.8	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	95	(78 - 111)			SW846 8260B
	96	(78 - 111)	0.70	(0-30)	SW846 8260B
Iodomethane	123	(79 - 130)			SW846 8260B
	113	(79 - 130)	8.3	(0-30)	SW846 8260B
1,4-Dichlorobenzene	89	(75 - 110)			SW846 8260B
	92	(75 - 110)	3.0	(0-30)	SW846 8260B
Isopropyl ether	99	(82 - 119)			SW846 8260B
	99	(82 - 119)	0.40	(0-30)	SW846 8260B
Dichlorodifluoromethane	74	(26 - 113)			SW846 8260B
	64	(26 - 113)	14	(0-30)	SW846 8260B
1,1-Dichloroethane	87	(76 - 115)			SW846 8260B
	86	(76 - 115)	1.3	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	126	(82 - 138)			SW846 8260B
	113	(82 - 138)	11	(0-30)	SW846 8260B
1,2-Dichloroethane	80	(72 - 120)			SW846 8260B
	82	(72 - 120)	1.9	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	93	(76 - 113)			SW846 8260B
	93	(76 - 113)	0.010	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	98	(78 - 117)			SW846 8260B
	94	(78 - 117)	4.5	(0-30)	SW846 8260B
1,1-Dichloroethene	99	(75 - 135)			SW846 8260B
	91	(75 - 135)	7.7	(0-30)	SW846 8260B
1,2-Dichloropropane	93	(87 - 113)			SW846 8260B
	92	(87 - 113)	0.68	(0-30)	SW846 8260B
1,3-Dichloropropane	92	(82 - 118)			SW846 8260B
	97	(82 - 118)	6.1	(0-30)	SW846 8260B
2,2-Dichloropropane	91	(69 - 135)			SW846 8260B
	84	(69 - 135)	8.4	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	102	(74 - 128)			SW846 8260B
	106	(74 - 128)	3.7	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	107	(73 - 131)			SW846 8260B
	111	(73 - 131)	4.1	(0-30)	SW846 8260B
1,1-Dichloropropene	97	(80 - 120)			SW846 8260B
	98	(80 - 120)	1.1	(0-30)	SW846 8260B
Ethylbenzene	102	(79 - 117)			SW846 8260B
	101	(79 - 117)	1.8	(0-30)	SW846 8260B
Hexachlorobutadiene	87	(54 - 131)			SW846 8260B
	86	(54 - 131)	1.7	(0-30)	SW846 8260B
Isopropylbenzene	105	(76 - 122)			SW846 8260B
	101	(76 - 122)	3.5	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
p-Isopropyltoluene	101	(77 - 131)			SW846 8260B
	102	(77 - 131)	0.30	(0-30)	SW846 8260B
Methylene chloride	99	(75 - 118)			SW846 8260B
	94	(75 - 118)	5.0	(0-30)	SW846 8260B
Naphthalene	82	(65 - 123)			SW846 8260B
	90	(65 - 123)	9.1	(0-30)	SW846 8260B
n-Propylbenzene	106	(81 - 129)			SW846 8260B
	106	(81 - 129)	0.33	(0-30)	SW846 8260B
Styrene	107	(87 - 117)			SW846 8260B
	108	(87 - 117)	0.85	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	103	(81 - 119)			SW846 8260B
	100	(81 - 119)	3.1	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	85	(77 - 123)			SW846 8260B
	90	(77 - 123)	6.3	(0-30)	SW846 8260B
Tetrachloroethene	106	(79 - 114)			SW846 8260B
	104	(79 - 114)	2.0	(0-30)	SW846 8260B
Toluene	94	(75 - 111)			SW846 8260B
	95	(75 - 111)	0.73	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	82	(61 - 121)			SW846 8260B
	88	(61 - 121)	6.4	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	88	(64 - 124)			SW846 8260B
	90	(64 - 124)	2.4	(0-30)	SW846 8260B
1,1,1-Trichloroethane	99	(77 - 126)			SW846 8260B
	92	(77 - 126)	7.5	(0-30)	SW846 8260B
1,1,2-Trichloroethane	93	(83 - 112)			SW846 8260B
	95	(83 - 112)	2.4	(0-30)	SW846 8260B
Trichloroethene	106	(79 - 113)			SW846 8260B
	103	(79 - 113)	2.4	(0-30)	SW846 8260B
Trichlorofluoromethane	107	(57 - 146)			SW846 8260B
	96	(57 - 146)	11	(0-30)	SW846 8260B
1,2,3-Trichloropropane	95	(84 - 126)			SW846 8260B
	98	(84 - 126)	3.8	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	100	(80 - 129)			SW846 8260B
	100	(80 - 129)	0.23	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	98	(78 - 128)			SW846 8260B
	96	(78 - 128)	1.4	(0-30)	SW846 8260B
Vinyl chloride	96	(57 - 114)			SW846 8260B
	84	(57 - 114)	14	(0-30)	SW846 8260B
m-Xylene & p-Xylene	102	(80 - 117)			SW846 8260B
	102	(80 - 117)	0.51	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
o-Xylene	103	(80 - 120)			SW846 8260B
	102	(80 - 120)	1.7	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	94	(37 - 132)
	93	(37 - 132)
Toluene-d8	104	(67 - 125)
	101	(67 - 125)
4-Bromofluorobenzene	90	(52 - 136)
	89	(52 - 136)
1,2-Dichloroethane-d4	81	(58 - 123)
	80	(58 - 123)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD
 Prep Date.....: 11/21/10 Analysis Date...: 11/21/10
 Prep Batch #...: 0326504
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	50	48	ug/kg	96		SW846 8260B
	50	47	ug/kg	95	1.1	SW846 8260B
Acetone	100	74	ug/kg	74		SW846 8260B
	100	77	ug/kg	77	4.8	SW846 8260B
Bromobenzene	50	47	ug/kg	93		SW846 8260B
	50	49	ug/kg	97	4.1	SW846 8260B
Carbon disulfide	50	63	ug/kg	126		SW846 8260B
	50	57	ug/kg	114	10	SW846 8260B
1,2-Dichloroethene (total)	100	96	ug/kg	96		SW846 8260B
	100	93	ug/kg	93	2.3	SW846 8260B
Bromochloromethane	50	50	ug/kg	100		SW846 8260B
	50	51	ug/kg	103	3.0	SW846 8260B
2-Butanone	100	69	ug/kg	69		SW846 8260B
	100	74	ug/kg	74	6.7	SW846 8260B
Bromodichloromethane	50	52	ug/kg	104		SW846 8260B
	50	51	ug/kg	103	0.86	SW846 8260B
Bromoform	50	57	ug/kg	113		SW846 8260B
	50	57	ug/kg	114	0.94	SW846 8260B
Bromomethane	50	50	ug/kg	99		SW846 8260B
	50	45	ug/kg	90	9.8	SW846 8260B
n-Butylbenzene	50	47	ug/kg	95		SW846 8260B
	50	46	ug/kg	92	2.7	SW846 8260B
4-Methyl-2-pentanone	100	79	ug/kg	79		SW846 8260B
	100	85	ug/kg	85	8.1	SW846 8260B
2-Hexanone	100	76	ug/kg	76		SW846 8260B
	100	84	ug/kg	84	10	SW846 8260B
sec-Butylbenzene	50	50	ug/kg	101		SW846 8260B
	50	49	ug/kg	98	2.9	SW846 8260B
tert-Butylbenzene	50	50	ug/kg	100		SW846 8260B
	50	51	ug/kg	102	1.6	SW846 8260B
Xylenes (total)	150	150	ug/kg	103		SW846 8260B
	150	150	ug/kg	102	0.91	SW846 8260B
Carbon tetrachloride	50	54	ug/kg	107		SW846 8260B
	50	50	ug/kg	100	7.3	SW846 8260B
Chlorobenzene	50	47	ug/kg	95		SW846 8260B
	50	48	ug/kg	95	0.66	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
n-Hexane	50	56	ug/kg	112		SW846 8260B
	50	52	ug/kg	105	6.2	SW846 8260B
Dibromochloromethane	50	55	ug/kg	110		SW846 8260B
	50	57	ug/kg	115	4.1	SW846 8260B
Methyl tert-butyl ether	50	46	ug/kg	93		SW846 8260B
	50	46	ug/kg	93	0.15	SW846 8260B
Cyclohexane	50	47	ug/kg	93		SW846 8260B
	50	41	ug/kg	83	12	SW846 8260B
1,2-Dibromo-3-chloro- propane	50	44	ug/kg	88		SW846 8260B
	50	47	ug/kg	93	6.2	SW846 8260B
Chloroethane	50	54	ug/kg	108		SW846 8260B
	50	46	ug/kg	93	15	SW846 8260B
Chloroform	50	46	ug/kg	93		SW846 8260B
	50	46	ug/kg	93	0.15	SW846 8260B
Chloromethane	50	38	ug/kg	76		SW846 8260B
	50	35	ug/kg	69	9.7	SW846 8260B
Trichlorotrifluoroethane	50	63	ug/kg	126		SW846 8260B
	50	56	ug/kg	113	11	SW846 8260B
Methyl acetate	50	34	ug/kg	68		SW846 8260B
	50	36	ug/kg	72	5.6	SW846 8260B
2-Chlorotoluene	50	48	ug/kg	96		SW846 8260B
	50	48	ug/kg	97	1.2	SW846 8260B
Methylcyclohexane	50	53	ug/kg	106		SW846 8260B
	50	49	ug/kg	97	8.5	SW846 8260B
4-Chlorotoluene	50	48	ug/kg	95		SW846 8260B
	50	49	ug/kg	98	2.8	SW846 8260B
2-Chloroethyl vinyl ether	50	25	ug/kg	50		SW846 8260B
	50	29	ug/kg	58	15	SW846 8260B
Acetonitrile	150	100	ug/kg	70		SW846 8260B
	150	110	ug/kg	70	1.1	SW846 8260B
Acrolein	150	96	ug/kg	64		SW846 8260B
	150	99	ug/kg	66	3.4	SW846 8260B
1,2-Dibromoethane	50	48	ug/kg	97		SW846 8260B
	50	50	ug/kg	100	4.0	SW846 8260B
Acrylonitrile	150	110	ug/kg	77		SW846 8260B
	150	120	ug/kg	80	4.7	SW846 8260B
Dibromomethane	50	49	ug/kg	98		SW846 8260B
	50	50	ug/kg	100	2.1	SW846 8260B
1,2-Dichlorobenzene	50	47	ug/kg	95		SW846 8260B
	50	49	ug/kg	98	2.8	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,3-Dichlorobenzene	50	48	ug/kg	95		SW846 8260B
	50	48	ug/kg	96	0.70	SW846 8260B
Iodomethane	50	61	ug/kg	123		SW846 8260B
	50	56	ug/kg	113	8.3	SW846 8260B
1,4-Dichlorobenzene	50	45	ug/kg	89		SW846 8260B
	50	46	ug/kg	92	3.0	SW846 8260B
Isopropyl ether	50	50	ug/kg	99		SW846 8260B
	50	49	ug/kg	99	0.40	SW846 8260B
Dichlorodifluoromethane	50	37	ug/kg	74		SW846 8260B
	50	32	ug/kg	64	14	SW846 8260B
1,1-Dichloroethane	50	43	ug/kg	87		SW846 8260B
	50	43	ug/kg	86	1.3	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	50	63	ug/kg	126		SW846 8260B
	50	56	ug/kg	113	11	SW846 8260B
1,2-Dichloroethane	50	40	ug/kg	80		SW846 8260B
	50	41	ug/kg	82	1.9	SW846 8260B
cis-1,2-Dichloroethene	50	46	ug/kg	93		SW846 8260B
	50	46	ug/kg	93	0.010	SW846 8260B
trans-1,2-Dichloroethene	50	49	ug/kg	98		SW846 8260B
	50	47	ug/kg	94	4.5	SW846 8260B
1,1-Dichloroethene	50	49	ug/kg	99		SW846 8260B
	50	46	ug/kg	91	7.7	SW846 8260B
1,2-Dichloropropane	50	46	ug/kg	93		SW846 8260B
	50	46	ug/kg	92	0.68	SW846 8260B
1,3-Dichloropropane	50	46	ug/kg	92		SW846 8260B
	50	49	ug/kg	97	6.1	SW846 8260B
2,2-Dichloropropane	50	46	ug/kg	91		SW846 8260B
	50	42	ug/kg	84	8.4	SW846 8260B
cis-1,3-Dichloropropene	50	51	ug/kg	102		SW846 8260B
	50	53	ug/kg	106	3.7	SW846 8260B
trans-1,3-Dichloropropene	50	53	ug/kg	107		SW846 8260B
	50	56	ug/kg	111	4.1	SW846 8260B
1,1-Dichloropropene	50	48	ug/kg	97		SW846 8260B
	50	49	ug/kg	98	1.1	SW846 8260B
Ethylbenzene	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	101	1.8	SW846 8260B
Hexachlorobutadiene	50	44	ug/kg	87		SW846 8260B
	50	43	ug/kg	86	1.7	SW846 8260B
Isopropylbenzene	50	53	ug/kg	105		SW846 8260B
	50	51	ug/kg	101	3.5	SW846 8260B

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GC/MS Volatiles

	SPIKE	MEASURED		PERCENT			
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	RPD	METHOD	
p-Isopropyltoluene	50	51	ug/kg	101		SW846	8260B
	50	51	ug/kg	102	0.30	SW846	8260B
Methylene chloride	50	49	ug/kg	99		SW846	8260B
	50	47	ug/kg	94	5.0	SW846	8260B
Naphthalene	50	41	ug/kg	82		SW846	8260B
	50	45	ug/kg	90	9.1	SW846	8260B
n-Propylbenzene	50	53	ug/kg	106		SW846	8260B
	50	53	ug/kg	106	0.33	SW846	8260B
Styrene	50	54	ug/kg	107		SW846	8260B
	50	54	ug/kg	108	0.85	SW846	8260B
1,1,1,2-Tetrachloroethane	50	52	ug/kg	103		SW846	8260B
	50	50	ug/kg	100	3.1	SW846	8260B
1,1,2,2-Tetrachloroethane	50	42	ug/kg	85		SW846	8260B
	50	45	ug/kg	90	6.3	SW846	8260B
Tetrachloroethene	50	53	ug/kg	106		SW846	8260B
	50	52	ug/kg	104	2.0	SW846	8260B
Toluene	50	47	ug/kg	94		SW846	8260B
	50	47	ug/kg	95	0.73	SW846	8260B
1,2,3-Trichlorobenzene	50	41	ug/kg	82		SW846	8260B
	50	44	ug/kg	88	6.4	SW846	8260B
1,2,4-Trichloro- benzene	50	44	ug/kg	88		SW846	8260B
	50	45	ug/kg	90	2.4	SW846	8260B
1,1,1-Trichloroethane	50	50	ug/kg	99		SW846	8260B
	50	46	ug/kg	92	7.5	SW846	8260B
1,1,2-Trichloroethane	50	47	ug/kg	93		SW846	8260B
	50	48	ug/kg	95	2.4	SW846	8260B
Trichloroethene	50	53	ug/kg	106		SW846	8260B
	50	52	ug/kg	103	2.4	SW846	8260B
Trichlorofluoromethane	50	53	ug/kg	107		SW846	8260B
	50	48	ug/kg	96	11	SW846	8260B
1,2,3-Trichloropropane	50	47	ug/kg	95		SW846	8260B
	50	49	ug/kg	98	3.8	SW846	8260B
1,2,4-Trimethylbenzene	50	50	ug/kg	100		SW846	8260B
	50	50	ug/kg	100	0.23	SW846	8260B
1,3,5-Trimethylbenzene	50	49	ug/kg	98		SW846	8260B
	50	48	ug/kg	96	1.4	SW846	8260B
Vinyl chloride	50	48	ug/kg	96		SW846	8260B
	50	42	ug/kg	84	14	SW846	8260B
m-Xylene & p-Xylene	100	100	ug/kg	102		SW846	8260B
	100	100	ug/kg	102	0.51	SW846	8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: MAFG51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0K220000-504 MAFG51AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
o-Xylene	50	52	ug/kg	103		SW846 8260B
	50	51	ug/kg	102	1.7	SW846 8260B
<u>SURROGATE</u>			<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
Dibromofluoromethane			94	(37 - 132)		
			93	(37 - 132)		
Toluene-d8			104	(67 - 125)		
			101	(67 - 125)		
4-Bromofluorobenzene			90	(52 - 136)		
			89	(52 - 136)		
1,2-Dichloroethane-d4			81	(58 - 123)		
			80	(58 - 123)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L902W1CE-MS Matrix.....: WASTE
 MS Lot-Sample #: A0K120524-001 L902W1CF-MSD
 Date Sampled...: 11/11/10 11:45 Date Received...: 11/12/10
 Leach Date.....: 11/19/10 Prep Date.....: 11/22/10 Analysis Date...: 11/22/10
 Leach Batch #...: P032201 Prep Batch #...: 0326427
 Dilution Factor: 1 Initial Wgt/Vol: 0.1 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	96	(85 - 119)			SW846 8260B
	95	(85 - 119)	1.2	(0-30)	SW846 8260B
2-Butanone (MEK)	92	(49 - 117)			SW846 8260B
	91	(49 - 117)	0.73	(0-30)	SW846 8260B
Carbon tetrachloride	73	(60 - 110)			SW846 8260B
	72	(60 - 110)	2.6	(0-30)	SW846 8260B
Chlorobenzene	96	(85 - 113)			SW846 8260B
	94	(85 - 113)	3.1	(0-30)	SW846 8260B
Chloromethane	69	(38 - 137)			SW846 8260B
	68	(38 - 137)	0.92	(0-30)	SW846 8260B
Chloroform	95	(86 - 124)			SW846 8260B
	93	(86 - 124)	2.8	(0-30)	SW846 8260B
Bromomethane	78	(12 - 142)			SW846 8260B
	77	(12 - 142)	1.3	(0-30)	SW846 8260B
1,2-Dichloroethane	91	(80 - 115)			SW846 8260B
	90	(80 - 115)	1.5	(0-30)	SW846 8260B
1,1-Dichloroethylene	91	(67 - 139)			SW846 8260B
	90	(67 - 139)	1.2	(0-30)	SW846 8260B
Tetrachloroethylene	107	(74 - 138)			SW846 8260B
	103	(74 - 138)	3.5	(0-30)	SW846 8260B
Chloroethane	73	(17 - 133)			SW846 8260B
	73	(17 - 133)	0.38	(0-30)	SW846 8260B
Trichloroethylene	121	(75 - 134)			SW846 8260B
	123	(75 - 134)	1.4	(0-30)	SW846 8260B
Vinyl chloride	79	(51 - 118)			SW846 8260B
	78	(51 - 118)	0.86	(0-30)	SW846 8260B
Methylene chloride	88	(42 - 138)			SW846 8260B
	86	(42 - 138)	2.0	(0-30)	SW846 8260B
Acetone	100	(32 - 123)			SW846 8260B
	103	(32 - 123)	2.9	(0-30)	SW846 8260B
Carbon disulfide	95	(61 - 141)			SW846 8260B
	94	(61 - 141)	1.8	(0-30)	SW846 8260B
1,1-Dichloroethane	96	(85 - 120)			SW846 8260B
	95	(85 - 120)	1.3	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	94	(78 - 118)			SW846 8260B
	91	(78 - 118)	3.0	(0-30)	SW846 8260B
1,1,1-Trichloroethane	88	(71 - 113)			SW846 8260B
	84	(71 - 113)	4.5	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L902W1CE-MS Matrix.....: WASTE
MS Lot-Sample #: A0K120524-001 L902W1CF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Bromodichloromethane	88	(70 - 114)			SW846 8260B
	83	(70 - 114)	4.9	(0-30)	SW846 8260B
1,2-Dichloropropane	96	(84 - 114)			SW846 8260B
	95	(84 - 114)	0.98	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	80	(44 - 115)			SW846 8260B
	78	(44 - 115)	2.9	(0-30)	SW846 8260B
Dibromochloromethane	77	(58 - 110)			SW846 8260B
	77	(58 - 110)	0.76	(0-30)	SW846 8260B
1,1,2-Trichloroethane	99	(85 - 112)			SW846 8260B
	96	(85 - 112)	2.3	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	82	(29 - 121)			SW846 8260B
	80	(29 - 121)	3.0	(0-30)	SW846 8260B
Bromoform	66	(46 - 110)			SW846 8260B
	65	(46 - 110)	1.4	(0-30)	SW846 8260B
4-Methyl-2-pentanone	92	(53 - 124)			SW846 8260B
	90	(53 - 124)	2.0	(0-30)	SW846 8260B
2-Hexanone	101	(45 - 132)			SW846 8260B
	99	(45 - 132)	1.9	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	68	(65 - 120)			SW846 8260B
	61 a	(65 - 120)	11	(0-30)	SW846 8260B
Toluene	103	(86 - 116)			SW846 8260B
	99	(86 - 116)	3.8	(0-30)	SW846 8260B
Ethylbenzene	101	(79 - 118)			SW846 8260B
	98	(79 - 118)	2.8	(0-30)	SW846 8260B
Styrene	97	(61 - 129)			SW846 8260B
	94	(61 - 129)	3.1	(0-30)	SW846 8260B
Xylenes (total)	101	(73 - 123)			SW846 8260B
	98	(73 - 123)	3.2	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	94	(78 - 115)			SW846 8260B
	90	(78 - 115)	3.6	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	94	(76 - 123)			SW846 8260B
	92	(76 - 123)	2.3	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(86 - 125)
	95	(86 - 125)
1,2-Dichloroethane-d4	87	(80 - 121)
	92	(80 - 121)
Toluene-d8	100	(90 - 115)
	100	(90 - 115)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L902W1CE-MS Matrix.....: WASTE
MS Lot-Sample #: A0K120524-001 L902W1CF-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	97	(70 - 124)
	95	(70 - 124)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L902W1CE-MS Matrix.....: WASTE
 MS Lot-Sample #: A0K120524-001 L902W1CF-MSD
 Date Sampled...: 11/11/10 11:45 Date Received...: 11/12/10
 Leach Date.....: 11/19/10 Prep Date.....: 11/22/10 Analysis Date...: 11/22/10
 Leach Batch #...: P032201 Prep Batch #...: 0326427
 Dilution Factor: 1 Initial Wgt/Vol: 0.1 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		
	AMOUNT	AMT	AMOUNT	RECVRY	RPD	METHOD	
Benzene	ND	1.0	0.96	mg/L	96		SW846 8260B
	ND	1.0	0.95	mg/L	95	1.2	SW846 8260B
2-Butanone (MEK)	ND	2.0	1.8	mg/L	92		SW846 8260B
	ND	2.0	1.8	mg/L	91	0.73	SW846 8260B
Carbon tetrachloride	ND	1.0	0.73	mg/L	73		SW846 8260B
	ND	1.0	0.72	mg/L	72	2.6	SW846 8260B
Chlorobenzene	ND	1.0	0.96	mg/L	96		SW846 8260B
	ND	1.0	0.94	mg/L	94	3.1	SW846 8260B
Chloromethane	ND	1.0	0.69	mg/L	69		SW846 8260B
	ND	1.0	0.68	mg/L	68	0.92	SW846 8260B
Chloroform	ND	1.0	0.95	mg/L	95		SW846 8260B
	ND	1.0	0.93	mg/L	93	2.8	SW846 8260B
Bromomethane	ND	1.0	0.78	mg/L	78		SW846 8260B
	ND	1.0	0.77	mg/L	77	1.3	SW846 8260B
1,2-Dichloroethane	ND	1.0	0.91	mg/L	91		SW846 8260B
	ND	1.0	0.90	mg/L	90	1.5	SW846 8260B
1,1-Dichloroethylene	ND	1.0	0.91	mg/L	91		SW846 8260B
	ND	1.0	0.90	mg/L	90	1.2	SW846 8260B
Tetrachloroethylene	ND	1.0	1.1	mg/L	107		SW846 8260B
	ND	1.0	1.0	mg/L	103	3.5	SW846 8260B
Chloroethane	ND	1.0	0.73	mg/L	73		SW846 8260B
	ND	1.0	0.73	mg/L	73	0.38	SW846 8260B
Trichloroethylene	ND	1.0	1.2	mg/L	121		SW846 8260B
	ND	1.0	1.2	mg/L	123	1.4	SW846 8260B
Vinyl chloride	ND	1.0	0.79	mg/L	79		SW846 8260B
	ND	1.0	0.78	mg/L	78	0.86	SW846 8260B
Methylene chloride	0.011	1.0	0.89	mg/L	88		SW846 8260B
	0.011	1.0	0.87	mg/L	86	2.0	SW846 8260B
Acetone	ND	2.0	2.0	mg/L	100		SW846 8260B
	ND	2.0	2.1	mg/L	103	2.9	SW846 8260B
Carbon disulfide	ND	1.0	0.95	mg/L	95		SW846 8260B
	ND	1.0	0.94	mg/L	94	1.8	SW846 8260B
1,1-Dichloroethane	ND	1.0	0.96	mg/L	96		SW846 8260B
	ND	1.0	0.95	mg/L	95	1.3	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	1.9	mg/L	94		SW846 8260B
	ND	2.0	1.8	mg/L	91	3.0	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	0.88	mg/L	88		SW846 8260B
	ND	1.0	0.84	mg/L	84	4.5	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L902W1CE-MS Matrix.....: WASTE
MS Lot-Sample #: A0K120524-001 L902W1CF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Bromodichloromethane	ND	1.0	0.88	mg/L	88		SW846 8260B
	ND	1.0	0.83	mg/L	83	4.9	SW846 8260B
1,2-Dichloropropane	ND	1.0	0.96	mg/L	96		SW846 8260B
	ND	1.0	0.95	mg/L	95	0.98	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	0.80	mg/L	80		SW846 8260B
	ND	1.0	0.78	mg/L	78	2.9	SW846 8260B
Dibromochloromethane	ND	1.0	0.77	mg/L	77		SW846 8260B
	ND	1.0	0.77	mg/L	77	0.76	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	0.99	mg/L	99		SW846 8260B
	ND	1.0	0.96	mg/L	96	2.3	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	0.82	mg/L	82		SW846 8260B
	ND	1.0	0.80	mg/L	80	3.0	SW846 8260B
Bromoform	ND	1.0	0.66	mg/L	66		SW846 8260B
	ND	1.0	0.65	mg/L	65	1.4	SW846 8260B
4-Methyl-2-pentanone	ND	2.0	1.8	mg/L	92		SW846 8260B
	ND	2.0	1.8	mg/L	90	2.0	SW846 8260B
2-Hexanone	ND	2.0	2.0	mg/L	101		SW846 8260B
	ND	2.0	2.0	mg/L	99	1.9	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	0.68	mg/L	68		SW846 8260B
	ND	1.0	0.61	mg/L	61 a	11	SW846 8260B
Toluene	ND	1.0	1.0	mg/L	103		SW846 8260B
	ND	1.0	1.0	mg/L	99	3.8	SW846 8260B
Ethylbenzene	ND	1.0	1.0	mg/L	101		SW846 8260B
	ND	1.0	0.98	mg/L	98	2.8	SW846 8260B
Styrene	ND	1.0	0.97	mg/L	97		SW846 8260B
	ND	1.0	0.94	mg/L	94	3.1	SW846 8260B
Xylenes (total)	ND	3.0	3.0	mg/L	101		SW846 8260B
	ND	3.0	2.9	mg/L	98	3.2	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	0.94	mg/L	94		SW846 8260B
	ND	1.0	0.90	mg/L	90	3.6	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	0.94	mg/L	94		SW846 8260B
	ND	1.0	0.92	mg/L	92	2.3	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(86 - 125)
	95	(86 - 125)
1,2-Dichloroethane-d4	87	(80 - 121)
	92	(80 - 121)
Toluene-d8	100	(90 - 115)
	100	(90 - 115)

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MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L902W1CE-MS Matrix.....: WASTE
MS Lot-Sample #: A0K120524-001 L902W1CF-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	97	(70 - 124)
	95	(70 - 124)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
 MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD
 Date Sampled...: 11/11/10 14:00 Date Received...: 11/12/10
 Prep Date.....: 11/22/10 Analysis Date...: 11/22/10
 Prep Batch #...: 0326504
 Dilution Factor: 1 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	82	(53 - 118)			SW846 8260B
	87	(53 - 118)	6.6	(0-30)	SW846 8260B
Bromobenzene	62	(24 - 144)			SW846 8260B
	72	(24 - 144)	15	(0-30)	SW846 8260B
Acetone	22 a	(24 - 140)			SW846 8260B
	23 a	(24 - 140)	0.04	(0-30)	SW846 8260B
Carbon disulfide	101	(20 - 151)			SW846 8260B
	104	(20 - 151)	3.0	(0-30)	SW846 8260B
Bromochloromethane	89	(53 - 116)			SW846 8260B
	98	(53 - 116)	9.9	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	78	(51 - 120)			SW846 8260B
	85	(51 - 120)	8.5	(0-30)	SW846 8260B
Bromodichloromethane	84	(35 - 132)			SW846 8260B
	89	(35 - 132)	6.5	(0-30)	SW846 8260B
2-Butanone	19 a	(30 - 143)			SW846 8260B
	53	(30 - 143)	16	(0-30)	SW846 8260B
Bromoform	82	(18 - 129)			SW846 8260B
	76	(18 - 129)	7.6	(0-30)	SW846 8260B
Bromomethane	64	(33 - 130)			SW846 8260B
	76	(33 - 130)	17	(0-30)	SW846 8260B
n-Butylbenzene	46	(10 - 148)			SW846 8260B
	40	(10 - 148)	15	(0-30)	SW846 8260B
4-Methyl-2-pentanone	84	(43 - 147)			SW846 8260B
	101	(43 - 147)	12	(0-30)	SW846 8260B
sec-Butylbenzene	68	(10 - 172)			SW846 8260B
	59	(10 - 172)	13	(0-30)	SW846 8260B
2-Hexanone	106	(37 - 147)			SW846 8260B
	96	(37 - 147)	3.0	(0-30)	SW846 8260B
tert-Butylbenzene	71	(10 - 163)			SW846 8260B
	65	(10 - 163)	9.3	(0-30)	SW846 8260B
Carbon tetrachloride	84	(32 - 137)			SW846 8260B
	90	(32 - 137)	6.9	(0-30)	SW846 8260B
Xylenes (total)	85	(30 - 131)			SW846 8260B
	62	(30 - 131)	28	(0-30)	SW846 8260B
Chlorobenzene	75	(37 - 116)			SW846 8260B
	64	(37 - 116)	16	(0-30)	SW846 8260B
n-Hexane	86	(26 - 151)			SW846 8260B
	85	(26 - 151)	1.3	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromochloromethane	85	(29 - 135)			SW846 8260B
	78	(29 - 135)	8.7	(0-30)	SW846 8260B
Methyl tert-butyl ether	85	(51 - 157)			SW846 8260B
	98	(51 - 157)	13	(0-30)	SW846 8260B
Cyclohexane	68	(28 - 118)			SW846 8260B
	72	(28 - 118)	5.6	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	61	(10 - 153)			SW846 8260B
	78	(10 - 153)	25	(0-30)	SW846 8260B
Chloroethane	71	(45 - 118)			SW846 8260B
	71	(45 - 118)	0.32	(0-30)	SW846 8260B
Chloroform	78	(53 - 119)			SW846 8260B
	85	(53 - 119)	9.0	(0-30)	SW846 8260B
Chloromethane	62	(34 - 117)			SW846 8260B
	68	(34 - 117)	7.9	(0-30)	SW846 8260B
Trichlorotrifluoroethane	99	(50 - 147)			SW846 8260B
	105	(50 - 147)	6.0	(0-30)	SW846 8260B
Methyl acetate	252 a	(33 - 165)			SW846 8260B
	173 a,p	(33 - 165)	38	(0-30)	SW846 8260B
Methylcyclohexane	80	(20 - 132)			SW846 8260B
	76	(20 - 132)	5.9	(0-30)	SW846 8260B
2-Chlorotoluene	71	(11 - 162)			SW846 8260B
	67	(11 - 162)	6.2	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	43	(10 - 162)			SW846 8260B
	52	(10 - 162)	19	(0-30)	SW846 8260B
4-Chlorotoluene	69	(15 - 149)			SW846 8260B
	65	(15 - 149)	5.5	(0-30)	SW846 8260B
Acetonitrile	71	(38 - 149)			SW846 8260B
	81	(38 - 149)	13	(0-30)	SW846 8260B
Acrolein	3.0 a	(10 - 149)			SW846 8260B
	4.9 a,p	(10 - 149)	46	(0-30)	SW846 8260B
Acrylonitrile	69	(40 - 132)			SW846 8260B
	83	(40 - 132)	18	(0-30)	SW846 8260B
1,2-Dibromoethane	79	(45 - 127)			SW846 8260B
	77	(45 - 127)	3.0	(0-30)	SW846 8260B
Cyclohexanone	69	(44 - 199)			SW846 8260B
	90	(44 - 199)	27	(0-30)	SW846 8260B
Dibromomethane	85	(52 - 123)			SW846 8260B
	91	(52 - 123)	7.0	(0-30)	SW846 8260B
1,2-Dichlorobenzene	49	(17 - 122)			SW846 8260B
	50	(17 - 122)	2.7	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	59	(16 - 126)			SW846 8260B
	50	(16 - 126)	18	(0-30)	SW846 8260B
Iodomethane	99	(51 - 132)			SW846 8260B
	106	(51 - 132)	7.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	57	(15 - 121)			SW846 8260B
	47	(15 - 121)	19	(0-30)	SW846 8260B
Isopropyl ether	90	(62 - 128)			SW846 8260B
	97	(62 - 128)	7.1	(0-30)	SW846 8260B
Dichlorodifluoromethane	57	(17 - 115)			SW846 8260B
	64	(17 - 115)	11	(0-30)	SW846 8260B
1,1-Dichloroethane	75	(54 - 122)			SW846 8260B
	84	(54 - 122)	11	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	99	(50 - 147)			SW846 8260B
	105	(50 - 147)	6.0	(0-30)	SW846 8260B
1,2-Dichloroethane	69	(49 - 123)			SW846 8260B
	76	(49 - 123)	9.2	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	72	(50 - 119)			SW846 8260B
	80	(50 - 119)	11	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	85	(50 - 123)			SW846 8260B
	91	(50 - 123)	6.7	(0-30)	SW846 8260B
1,1-Dichloroethene	81	(49 - 157)			SW846 8260B
	87	(49 - 157)	6.8	(0-30)	SW846 8260B
1,2-Dichloropropane	81	(61 - 117)			SW846 8260B
	82	(61 - 117)	1.9	(0-30)	SW846 8260B
1,3-Dichloropropane	81	(54 - 128)			SW846 8260B
	72	(54 - 128)	12	(0-30)	SW846 8260B
2,2-Dichloropropane	64	(49 - 132)			SW846 8260B
	71	(49 - 132)	10	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	74	(27 - 133)			SW846 8260B
	88	(27 - 133)	17	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	87	(28 - 137)			SW846 8260B
	79	(28 - 137)	9.6	(0-30)	SW846 8260B
1,1-Dichloropropene	81	(50 - 122)			SW846 8260B
	88	(50 - 122)	7.8	(0-30)	SW846 8260B
Ethylbenzene	81	(30 - 131)			SW846 8260B
	67	(30 - 131)	18	(0-30)	SW846 8260B
Hexachlorobutadiene	38	(10 - 131)			SW846 8260B
	27 p	(10 - 131)	34	(0-30)	SW846 8260B
Isopropylbenzene	72	(21 - 134)			SW846 8260B
	63	(21 - 134)	14	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
p-Isopropyltoluene	70	(10 - 165)			SW846 8260B
	51 p	(10 - 165)	31	(0-30)	SW846 8260B
Methylene chloride	91	(54 - 115)			SW846 8260B
	94	(54 - 115)	3.0	(0-30)	SW846 8260B
Naphthalene	256 a	(10 - 124)			SW846 8260B
	138 a,p	(10 - 124)	37	(0-30)	SW846 8260B
n-Propylbenzene	70	(10 - 178)			SW846 8260B
	71	(10 - 178)	2.3	(0-30)	SW846 8260B
Styrene	76	(27 - 127)			SW846 8260B
	66	(27 - 127)	13	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	79	(34 - 135)			SW846 8260B
	69	(34 - 135)	14	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	63	(16 - 179)			SW846 8260B
	75	(16 - 179)	16	(0-30)	SW846 8260B
Tetrachloroethene	86	(31 - 135)			SW846 8260B
	72	(31 - 135)	18	(0-30)	SW846 8260B
Toluene	102	(39 - 129)			SW846 8260B
	77	(39 - 129)	24	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	27	(10 - 110)			SW846 8260B
	31	(10 - 110)	14	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	34	(10 - 111)			SW846 8260B
	36	(10 - 111)	5.4	(0-30)	SW846 8260B
1,1,1-Trichloroethane	79	(51 - 128)			SW846 8260B
	83	(51 - 128)	5.4	(0-30)	SW846 8260B
1,1,2-Trichloroethane	79	(10 - 166)			SW846 8260B
	73	(10 - 166)	7.9	(0-30)	SW846 8260B
Trichloroethene	88	(10 - 177)			SW846 8260B
	86	(10 - 177)	2.0	(0-30)	SW846 8260B
Trichlorofluoromethane	79	(36 - 142)			SW846 8260B
	82	(36 - 142)	4.3	(0-30)	SW846 8260B
1,2,3-Trichloropropane	69	(32 - 174)			SW846 8260B
	90	(32 - 174)	26	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	79	(10 - 173)			SW846 8260B
	68	(10 - 173)	14	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	70	(10 - 171)			SW846 8260B
	64	(10 - 171)	8.3	(0-30)	SW846 8260B
Vinyl chloride	74	(42 - 117)			SW846 8260B
	82	(42 - 117)	10	(0-30)	SW846 8260B
m-Xylene & p-Xylene	85	(29 - 131)			SW846 8260B
	59 p	(29 - 131)	34	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
 MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
o-Xylene	83	(29 - 134)			SW846 8260B
	69	(29 - 134)	17	(0-30)	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>			
Dibromofluoromethane	92	(37 - 132)			
	109	(37 - 132)			
Toluene-d8	99	(67 - 125)			
	114	(67 - 125)			
4-Bromofluorobenzene	81	(52 - 136)			
	86	(52 - 136)			
1,2-Dichloroethane-d4	80	(58 - 123)			
	94	(58 - 123)			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
 MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD
 Date Sampled...: 11/11/10 14:00 Date Received...: 11/12/10
 Prep Date.....: 11/22/10 Analysis Date...: 11/22/10
 Prep Batch #...: 0326504
 Dilution Factor: 1 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	57	46	ug/kg	82		SW846 8260B
	ND	57	50	ug/kg	87	6.6	SW846 8260B
Bromobenzene	ND	57	35	ug/kg	62		SW846 8260B
	ND	57	41	ug/kg	72	15	SW846 8260B
Acetone	1300	110	1300	ug/kg	22 a		SW846 8260B
	1300	110	1300	ug/kg	23 a	0.04	SW846 8260B
Carbon disulfide	ND	57	57	ug/kg	101		SW846 8260B
	ND	57	59	ug/kg	104	3.0	SW846 8260B
Bromochloromethane	ND	57	50	ug/kg	89		SW846 8260B
	ND	57	56	ug/kg	98	9.9	SW846 8260B
1,2-Dichloroethene (total)	ND	110	89	ug/kg	78		SW846 8260B
	ND	110	97	ug/kg	85	8.5	SW846 8260B
Bromodichloromethane	ND	57	47	ug/kg	84		SW846 8260B
	ND	57	51	ug/kg	89	6.5	SW846 8260B
2-Butanone	200	110	230	ug/kg	19 a		SW846 8260B
	200	110	260	ug/kg	53	16	SW846 8260B
Bromoform	ND	57	46	ug/kg	82		SW846 8260B
	ND	57	43	ug/kg	76	7.6	SW846 8260B
Bromomethane	ND	57	36	ug/kg	64		SW846 8260B
	ND	57	43	ug/kg	76	17	SW846 8260B
n-Butylbenzene	ND	57	26	ug/kg	46		SW846 8260B
	ND	57	22	ug/kg	40	15	SW846 8260B
4-Methyl-2-pentanone	54	110	150	ug/kg	84		SW846 8260B
	54	110	170	ug/kg	101	12	SW846 8260B
sec-Butylbenzene	ND	57	38	ug/kg	68		SW846 8260B
	ND	57	34	ug/kg	59	13	SW846 8260B
2-Hexanone	260	110	380	ug/kg	106		SW846 8260B
	260	110	370	ug/kg	96	3.0	SW846 8260B
tert-Butylbenzene	ND	57	40	ug/kg	71		SW846 8260B
	ND	57	37	ug/kg	65	9.3	SW846 8260B
Carbon tetrachloride	ND	57	47	ug/kg	84		SW846 8260B
	ND	57	51	ug/kg	90	6.9	SW846 8260B
Xylenes (total)	ND	170	150	ug/kg	85		SW846 8260B
	ND	170	110	ug/kg	62	28	SW846 8260B
Chlorobenzene	ND	57	42	ug/kg	75		SW846 8260B
	ND	57	36	ug/kg	64	16	SW846 8260B
n-Hexane	ND	57	49	ug/kg	86		SW846 8260B
	ND	57	48	ug/kg	85	1.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dibromochloromethane	ND	57	49	ug/kg	85		SW846 8260B
	ND	57	44	ug/kg	78	8.7	SW846 8260B
Methyl tert-butyl ether	ND	57	49	ug/kg	85		SW846 8260B
	ND	57	55	ug/kg	98	13	SW846 8260B
Cyclohexane	ND	57	39	ug/kg	68		SW846 8260B
	ND	57	41	ug/kg	72	5.6	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	57	34	ug/kg	61		SW846 8260B
	ND	57	44	ug/kg	78	25	SW846 8260B
Chloroethane	ND	57	40	ug/kg	71		SW846 8260B
	ND	57	40	ug/kg	71	0.32	SW846 8260B
Chloroform	ND	57	44	ug/kg	78		SW846 8260B
	ND	57	48	ug/kg	85	9.0	SW846 8260B
Chloromethane	ND	57	35	ug/kg	62		SW846 8260B
	ND	57	38	ug/kg	68	7.9	SW846 8260B
Trichlorotrifluoroethane	ND	57	56	ug/kg	99		SW846 8260B
	ND	57	60	ug/kg	105	6.0	SW846 8260B
Methyl acetate	ND	57	140	ug/kg	252 a		SW846 8260B
	ND	57	98	ug/kg	173	38	SW846 8260B
	Qualifiers: a,p						
Methylcyclohexane	ND	57	45	ug/kg	80		SW846 8260B
	ND	57	43	ug/kg	76	5.9	SW846 8260B
2-Chlorotoluene	ND	57	41	ug/kg	71		SW846 8260B
	ND	57	38	ug/kg	67	6.2	SW846 8260B
2-Chloroethyl vinyl ether	ND	57	24	ug/kg	43		SW846 8260B
	ND	57	29	ug/kg	52	19	SW846 8260B
4-Chlorotoluene	ND	57	39	ug/kg	69		SW846 8260B
	ND	57	37	ug/kg	65	5.5	SW846 8260B
Acetonitrile	ND	170	120	ug/kg	71		SW846 8260B
	ND	170	140	ug/kg	81	13	SW846 8260B
Acrolein	ND	170	5.2	ug/kg	3.0 a		SW846 8260B
	ND	170	8.3	ug/kg	4.9	46	SW846 8260B
	Qualifiers: a,p						
Acrylonitrile	ND	170	120	ug/kg	69		SW846 8260B
	ND	170	140	ug/kg	83	18	SW846 8260B
1,2-Dibromoethane	ND	57	45	ug/kg	79		SW846 8260B
	ND	57	44	ug/kg	77	3.0	SW846 8260B
Cyclohexanone	ND	570	390	ug/kg	69		SW846 8260B
	ND	570	510	ug/kg	90	27	SW846 8260B
Dibromomethane	ND	57	48	ug/kg	85		SW846 8260B
	ND	57	52	ug/kg	91	7.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dichlorobenzene	ND	57	28	ug/kg	49		SW846 8260B
	ND	57	29	ug/kg	50	2.7	SW846 8260B
1,3-Dichlorobenzene	ND	57	34	ug/kg	59		SW846 8260B
	ND	57	28	ug/kg	50	18	SW846 8260B
Iodomethane	ND	57	56	ug/kg	99		SW846 8260B
	ND	57	60	ug/kg	106	7.0	SW846 8260B
1,4-Dichlorobenzene	ND	57	33	ug/kg	57		SW846 8260B
	ND	57	27	ug/kg	47	19	SW846 8260B
Isopropyl ether	ND	57	51	ug/kg	90		SW846 8260B
	ND	57	55	ug/kg	97	7.1	SW846 8260B
Dichlorodifluoromethane	ND	57	33	ug/kg	57		SW846 8260B
	ND	57	36	ug/kg	64	11	SW846 8260B
1,1-Dichloroethane	ND	57	43	ug/kg	75		SW846 8260B
	ND	57	47	ug/kg	84	11	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	57	56	ug/kg	99		SW846 8260B
	ND	57	60	ug/kg	105	6.0	SW846 8260B
1,2-Dichloroethane	ND	57	39	ug/kg	69		SW846 8260B
	ND	57	43	ug/kg	76	9.2	SW846 8260B
cis-1,2-Dichloroethene	ND	57	41	ug/kg	72		SW846 8260B
	ND	57	45	ug/kg	80	11	SW846 8260B
trans-1,2-Dichloroethene	ND	57	48	ug/kg	85		SW846 8260B
	ND	57	52	ug/kg	91	6.7	SW846 8260B
1,1-Dichloroethene	ND	57	46	ug/kg	81		SW846 8260B
	ND	57	49	ug/kg	87	6.8	SW846 8260B
1,2-Dichloropropane	ND	57	46	ug/kg	81		SW846 8260B
	ND	57	47	ug/kg	82	1.9	SW846 8260B
1,3-Dichloropropane	ND	57	46	ug/kg	81		SW846 8260B
	ND	57	41	ug/kg	72	12	SW846 8260B
2,2-Dichloropropane	ND	57	36	ug/kg	64		SW846 8260B
	ND	57	40	ug/kg	71	10	SW846 8260B
cis-1,3-Dichloropropene	ND	57	42	ug/kg	74		SW846 8260B
	ND	57	50	ug/kg	88	17	SW846 8260B
trans-1,3-Dichloropropene	ND	57	49	ug/kg	87		SW846 8260B
	ND	57	45	ug/kg	79	9.6	SW846 8260B
1,1-Dichloropropene	ND	57	46	ug/kg	81		SW846 8260B
	ND	57	50	ug/kg	88	7.8	SW846 8260B
Ethylbenzene	ND	57	47	ug/kg	81		SW846 8260B
	ND	57	40	ug/kg	67	18	SW846 8260B
Hexachlorobutadiene	ND	57	21	ug/kg	38		SW846 8260B
	ND	57	15	ug/kg	27 p	34	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Isopropylbenzene	ND	57	41	ug/kg	72		SW846 8260B
	ND	57	36	ug/kg	63	14	SW846 8260B
p-Isopropyltoluene	ND	57	40	ug/kg	70		SW846 8260B
	ND	57	29	ug/kg	51 p	31	SW846 8260B
Methylene chloride	ND	57	53	ug/kg	91		SW846 8260B
	ND	57	55	ug/kg	94	3.0	SW846 8260B
Naphthalene	71	57	220	ug/kg	256 a		SW846 8260B
	71	57	150	ug/kg	138	37	SW846 8260B
Qualifiers: a,p							
n-Propylbenzene	ND	57	40	ug/kg	70		SW846 8260B
	ND	57	41	ug/kg	71	2.3	SW846 8260B
Styrene	ND	57	43	ug/kg	76		SW846 8260B
	ND	57	38	ug/kg	66	13	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	57	45	ug/kg	79		SW846 8260B
	ND	57	39	ug/kg	69	14	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	57	36	ug/kg	63		SW846 8260B
	ND	57	42	ug/kg	75	16	SW846 8260B
Tetrachloroethene	ND	57	49	ug/kg	86		SW846 8260B
	ND	57	41	ug/kg	72	18	SW846 8260B
Toluene	9.4	57	67	ug/kg	102		SW846 8260B
	9.4	57	53	ug/kg	77	24	SW846 8260B
1,2,3-Trichlorobenzene	ND	57	15	ug/kg	27		SW846 8260B
	ND	57	17	ug/kg	31	14	SW846 8260B
1,2,4-Trichloro- benzene	ND	57	20	ug/kg	34		SW846 8260B
	ND	57	21	ug/kg	36	5.4	SW846 8260B
1,1,1-Trichloroethane	ND	57	45	ug/kg	79		SW846 8260B
	ND	57	47	ug/kg	83	5.4	SW846 8260B
1,1,2-Trichloroethane	ND	57	45	ug/kg	79		SW846 8260B
	ND	57	42	ug/kg	73	7.9	SW846 8260B
Trichloroethene	ND	57	50	ug/kg	88		SW846 8260B
	ND	57	49	ug/kg	86	2.0	SW846 8260B
Trichlorofluoromethane	ND	57	45	ug/kg	79		SW846 8260B
	ND	57	47	ug/kg	82	4.3	SW846 8260B
1,2,3-Trichloropropane	ND	57	39	ug/kg	69		SW846 8260B
	ND	57	51	ug/kg	90	26	SW846 8260B
1,2,4-Trimethylbenzene	ND	57	46	ug/kg	79		SW846 8260B
	ND	57	40	ug/kg	68	14	SW846 8260B
1,3,5-Trimethylbenzene	ND	57	40	ug/kg	70		SW846 8260B
	ND	57	37	ug/kg	64	8.3	SW846 8260B
Vinyl chloride	ND	57	42	ug/kg	74		SW846 8260B
	ND	57	47	ug/kg	82	10	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K160527 Work Order #...: L95MH1AQ-MS Matrix.....: SO
 MS Lot-Sample #: A0K160527-001 L95MH1AR-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
m-Xylene & p-Xylene	ND	110	100	ug/kg	85		SW846 8260B
	ND	110	73	ug/kg	59 p	34	SW846 8260B
o-Xylene	ND	57	49	ug/kg	83		SW846 8260B
	ND	57	41	ug/kg	69	17	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(37 - 132)
	109	(37 - 132)
Toluene-d8	99	(67 - 125)
	114	(67 - 125)
4-Bromofluorobenzene	81	(52 - 136)
	86	(52 - 136)
1,2-Dichloroethane-d4	80	(58 - 123)
	94	(58 - 123)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

METALS DATA

TRW Automotive

Client Sample ID: IDW SOIL-20101111

TOTAL Metals

Lot-Sample #...: A0K160527-001

Matrix.....: SO

Date Sampled...: 11/11/10 14:00 Date Received...: 11/12/10

% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0321019						
Arsenic	5.1	1.1	mg/kg	SW846 6010B	11/17-11/19/10	L95MH1AG
		Dilution Factor: 1		Analysis Time...: 02:59	Analyst ID.....: 001637	
		Instrument ID...: I6				
Barium	209	22.7	mg/kg	SW846 6010B	11/17-11/19/10	L95MH1AK
		Dilution Factor: 1		Analysis Time...: 02:59	Analyst ID.....: 001637	
		Instrument ID...: I6				
Cadmium	ND	0.57	mg/kg	SW846 6010B	11/17-11/19/10	L95MH1AL
		Dilution Factor: 1		Analysis Time...: 02:59	Analyst ID.....: 001637	
		Instrument ID...: I6				
Lead	19.3	0.34	mg/kg	SW846 6010B	11/17-11/19/10	L95MH1AH
		Dilution Factor: 1		Analysis Time...: 02:59	Analyst ID.....: 001637	
		Instrument ID...: I6				
Chromium	31.8	1.1	mg/kg	SW846 6010B	11/17-11/19/10	L95MH1AM
		Dilution Factor: 1		Analysis Time...: 02:59	Analyst ID.....: 001637	
		Instrument ID...: I6				
Selenium	ND	0.57	mg/kg	SW846 6010B	11/17-11/19/10	L95MH1AJ
		Dilution Factor: 1		Analysis Time...: 02:59	Analyst ID.....: 001637	
		Instrument ID...: I6				
Silver	ND	1.1	mg/kg	SW846 6010B	11/17-11/19/10	L95MH1AN
		Dilution Factor: 1		Analysis Time...: 02:59	Analyst ID.....: 001637	
		Instrument ID...: I6				
Mercury	ND	0.11	mg/kg	SW846 7471A	11/17-11/18/10	L95MH1AF
		Dilution Factor: 1		Analysis Time...: 13:41	Analyst ID.....: 001576	
		Instrument ID...: H1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0K160527

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0K170000-019 Prep Batch #...: 0321019						
Arsenic	ND	1.0	mg/kg	SW846 6010B	11/17-11/19/10	L954M1AU
		Dilution Factor: 1				
		Analysis Time...: 02:16		Analyst ID.....: 001637	Instrument ID...: I6	
Barium	ND	20.0	mg/kg	SW846 6010B	11/17-11/19/10	L954M1AF
		Dilution Factor: 1				
		Analysis Time...: 02:16		Analyst ID.....: 001637	Instrument ID...: I6	
Cadmium	ND	0.50	mg/kg	SW846 6010B	11/17-11/19/10	L954M1AG
		Dilution Factor: 1				
		Analysis Time...: 02:16		Analyst ID.....: 001637	Instrument ID...: I6	
Lead	ND	0.30	mg/kg	SW846 6010B	11/17-11/19/10	L954M1AV
		Dilution Factor: 1				
		Analysis Time...: 02:16		Analyst ID.....: 001637	Instrument ID...: I6	
Chromium	ND	1.0	mg/kg	SW846 6010B	11/17-11/19/10	L954M1AH
		Dilution Factor: 1				
		Analysis Time...: 02:16		Analyst ID.....: 001637	Instrument ID...: I6	
Selenium	ND	0.50	mg/kg	SW846 6010B	11/17-11/19/10	L954M1AW
		Dilution Factor: 1				
		Analysis Time...: 02:16		Analyst ID.....: 001637	Instrument ID...: I6	
Silver	ND	1.0	mg/kg	SW846 6010B	11/17-11/19/10	L954M1AJ
		Dilution Factor: 1				
		Analysis Time...: 02:16		Analyst ID.....: 001637	Instrument ID...: I6	
Mercury	ND	0.10	mg/kg	SW846 7471A	11/17-11/18/10	L954M1AA
		Dilution Factor: 1				
		Analysis Time...: 13:31		Analyst ID.....: 001576	Instrument ID...: H1	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0K160527

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0K170000-019 Prep Batch #... : 0321019					
Barium	97	(80 - 120)	SW846 6010B	11/17-11/19/10	L954M1AP
		Dilution Factor: 1	Analysis Time..: 02:22	Analyst ID.....: 001637	
		Instrument ID...: I6			
Arsenic	94	(80 - 120)	SW846 6010B	11/17-11/19/10	L954M1AX
		Dilution Factor: 1	Analysis Time..: 02:22	Analyst ID.....: 001637	
		Instrument ID...: I6			
Cadmium	98	(80 - 120)	SW846 6010B	11/17-11/19/10	L954M1AQ
		Dilution Factor: 1	Analysis Time..: 02:22	Analyst ID.....: 001637	
		Instrument ID...: I6			
Lead	97	(80 - 120)	SW846 6010B	11/17-11/19/10	L954M1A0
		Dilution Factor: 1	Analysis Time..: 02:22	Analyst ID.....: 001637	
		Instrument ID...: I6			
Chromium	98	(80 - 120)	SW846 6010B	11/17-11/19/10	L954M1AR
		Dilution Factor: 1	Analysis Time..: 02:22	Analyst ID.....: 001637	
		Instrument ID...: I6			
Selenium	96	(80 - 120)	SW846 6010B	11/17-11/19/10	L954M1A1
		Dilution Factor: 1	Analysis Time..: 02:22	Analyst ID.....: 001637	
		Instrument ID...: I6			
Silver	95	(80 - 120)	SW846 6010B	11/17-11/19/10	L954M1AT
		Dilution Factor: 1	Analysis Time..: 02:22	Analyst ID.....: 001637	
		Instrument ID...: I6			
Mercury	94	(73 - 121)	SW846 7471A	11/17-11/18/10	L954M1AK
		Dilution Factor: 1	Analysis Time..: 13:32	Analyst ID.....: 001576	
		Instrument ID...: H1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0K160527

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample# : A0K170000-019 Prep Batch #... : 0321019							
Barium	200	194	mg/kg	97	SW846 6010B	11/17-11/19/10	L954M1AP
			Dilution Factor: 1		Analysis Time..: 02:22	Analyst ID.....: 001637	
			Instrument ID..: I6				
Arsenic	200	189	mg/kg	94	SW846 6010B	11/17-11/19/10	L954M1AX
			Dilution Factor: 1		Analysis Time..: 02:22	Analyst ID.....: 001637	
			Instrument ID..: I6				
Cadmium	5.0	4.9	mg/kg	98	SW846 6010B	11/17-11/19/10	L954M1AQ
			Dilution Factor: 1		Analysis Time..: 02:22	Analyst ID.....: 001637	
			Instrument ID..: I6				
Lead	50.0	48.6	mg/kg	97	SW846 6010B	11/17-11/19/10	L954M1A0
			Dilution Factor: 1		Analysis Time..: 02:22	Analyst ID.....: 001637	
			Instrument ID..: I6				
Chromium	20.0	19.6	mg/kg	98	SW846 6010B	11/17-11/19/10	L954M1AR
			Dilution Factor: 1		Analysis Time..: 02:22	Analyst ID.....: 001637	
			Instrument ID..: I6				
Selenium	200	191	mg/kg	96	SW846 6010B	11/17-11/19/10	L954M1A1
			Dilution Factor: 1		Analysis Time..: 02:22	Analyst ID.....: 001637	
			Instrument ID..: I6				
Silver	5.0	4.8	mg/kg	95	SW846 6010B	11/17-11/19/10	L954M1AT
			Dilution Factor: 1		Analysis Time..: 02:22	Analyst ID.....: 001637	
			Instrument ID..: I6				
Mercury	0.83	0.78	mg/kg	94	SW846 7471A	11/17-11/18/10	L954M1AK
			Dilution Factor: 1		Analysis Time..: 13:32	Analyst ID.....: 001576	
			Instrument ID..: H1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0K160527

Matrix.....: SOLID

Date Sampled...: 11/15/10 13:00 Date Received...: 11/16/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0K160534-001 Prep Batch #...: 0321019						
					% Moisture.....: 100	
Arsenic	81	(75 - 125)		SW846 6010B	11/17-11/19/10	L95N71CA
	88	(75 - 125)	7.9 (0-20)	SW846 6010B	11/17-11/19/10	L95N71CC
Dilution Factor: 1						
Analysis Time...: 03:12			Instrument ID...: I6		Analyst ID.....: 001637	
Barium	98	(75 - 125)		SW846 6010B	11/17-11/19/10	L95N71A1
	96	(75 - 125)	1.5 (0-20)	SW846 6010B	11/17-11/19/10	L95N71A2
Dilution Factor: 1						
Analysis Time...: 03:12			Instrument ID...: I6		Analyst ID.....: 001637	
Cadmium	81	(75 - 125)		SW846 6010B	11/17-11/19/10	L95N71A3
	90	(75 - 125)	10 (0-20)	SW846 6010B	11/17-11/19/10	L95N71A4
Dilution Factor: 1						
Analysis Time...: 03:12			Instrument ID...: I6		Analyst ID.....: 001637	
Lead	351 N	(75 - 125)		SW846 6010B	11/17-11/19/10	L95N71CE
	241 N, *	(75 - 125)	21 (0-20)	SW846 6010B	11/17-11/19/10	L95N71CF
Dilution Factor: 1						
Analysis Time...: 03:12			Instrument ID...: I6		Analyst ID.....: 001637	
Chromium	87	(75 - 125)		SW846 6010B	11/17-11/19/10	L95N71A5
	99	(75 - 125)	7.0 (0-20)	SW846 6010B	11/17-11/19/10	L95N71A6
Dilution Factor: 1						
Analysis Time...: 03:12			Instrument ID...: I6		Analyst ID.....: 001637	
Selenium	78	(75 - 125)		SW846 6010B	11/17-11/19/10	L95N71CH
	86	(75 - 125)	9.3 (0-20)	SW846 6010B	11/17-11/19/10	L95N71CJ
Dilution Factor: 1						
Analysis Time...: 03:12			Instrument ID...: I6		Analyst ID.....: 001637	
Silver	83	(75 - 125)		SW846 6010B	11/17-11/19/10	L95N71A7
	90	(75 - 125)	7.3 (0-20)	SW846 6010B	11/17-11/19/10	L95N71A8
Dilution Factor: 1						
Analysis Time...: 03:12			Instrument ID...: I6		Analyst ID.....: 001637	
Mercury	93	(11 - 192)		SW846 7471A	11/17-11/18/10	L95N71AQ
	77	(11 - 192)	9.9 (0-20)	SW846 7471A	11/17-11/18/10	L95N71AR
Dilution Factor: 1						
Analysis Time...: 13:35			Instrument ID...: H1		Analyst ID.....: 001576	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0K160527

Matrix.....: SOLID

Date Sampled...: 11/15/10 13:00 Date Received...: 11/16/10

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: A0K160534-001 Prep Batch #...: 0321019

% Moisture.....: 100

Arsenic

7.2	200	169	mg/kg	81			SW846 6010B	11/17-11/19/10	L95N71CA
7.2	200	183	mg/kg	88	7.9		SW846 6010B	11/17-11/19/10	L95N71CC
Dilution Factor: 1									
			Analysis Time...: 03:12		Instrument ID...: I6		Analyst ID.....: 001637		

Barium

74.2	200	269	mg/kg	98			SW846 6010B	11/17-11/19/10	L95N71A1
74.2	200	265	mg/kg	96	1.5		SW846 6010B	11/17-11/19/10	L95N71A2
Dilution Factor: 1									
			Analysis Time...: 03:12		Instrument ID...: I6		Analyst ID.....: 001637		

Cadmium

ND	5.0	4.1	mg/kg	81			SW846 6010B	11/17-11/19/10	L95N71A3
ND	5.0	4.5	mg/kg	90	10		SW846 6010B	11/17-11/19/10	L95N71A4
Dilution Factor: 1									
			Analysis Time...: 03:12		Instrument ID...: I6		Analyst ID.....: 001637		

Lead

120	50.0	296 N	mg/kg	351			SW846 6010B	11/17-11/19/10	L95N71CE
120	50.0	241 N, *	mg/kg	241	21		SW846 6010B	11/17-11/19/10	L95N71CF
Dilution Factor: 1									
			Analysis Time...: 03:12		Instrument ID...: I6		Analyst ID.....: 001637		

Chromium

16.6	20.0	34.0	mg/kg	87			SW846 6010B	11/17-11/19/10	L95N71A5
16.6	20.0	36.5	mg/kg	99	7.0		SW846 6010B	11/17-11/19/10	L95N71A6
Dilution Factor: 1									
			Analysis Time...: 03:12		Instrument ID...: I6		Analyst ID.....: 001637		

Selenium

ND	200	157	mg/kg	78			SW846 6010B	11/17-11/19/10	L95N71CH
ND	200	172	mg/kg	86	9.3		SW846 6010B	11/17-11/19/10	L95N71CJ
Dilution Factor: 1									
			Analysis Time...: 03:12		Instrument ID...: I6		Analyst ID.....: 001637		

Silver

ND	5.0	4.2	mg/kg	83			SW846 6010B	11/17-11/19/10	L95N71A7
ND	5.0	4.5	mg/kg	90	7.3		SW846 6010B	11/17-11/19/10	L95N71A8
Dilution Factor: 1									
			Analysis Time...: 03:12		Instrument ID...: I6		Analyst ID.....: 001637		

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0K160527

Matrix.....: SOLID

Date Sampled...: 11/15/10 13:00 Date Received...: 11/16/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury	0.13	0.17	0.28	mg/kg	93		SW846 7471A	11/17-11/18/10	L95N71AQ
	0.13	0.17	0.26	mg/kg	77	9.9	SW846 7471A	11/17-11/18/10	L95N71AR
			Dilution Factor: 1						
			Analysis Time...: 13:35		Instrument ID...: H1		Analyst ID.....: 001576		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

GENERAL CHEMISTRY DATA

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0K160527

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids		Work Order #:	MAKED1AA	MB Lot-Sample #:	A0K240000-344	
	ND	10.0	%	MCAWW 160.3 MOD	11/24-11/29/10	0328344
		Dilution Factor:	1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0K160527

Work Order #...: MACNJ-SMP
MACNJ-DUP

Matrix.....: SOLID

Date Sampled...: 11/12/10 10:30 Date Received...: 11/13/10

% Moisture.....: 16

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	83.8	85.3	%	1.7	(0-20)	SD Lot-Sample #: A0K190632-003 MCAWW 160.3 MOD	11/24-11/29/10	0328344

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0K160527

Work Order #...: MACNN-SMP
MACNN-DUP

Matrix.....: SOLID

Date Sampled...: 11/12/10 11:10 Date Received...: 11/13/10

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	85.1	85.1	%	0.028	(0-20)	SD Lot-Sample #: A0K190632-005 MCAWW 160.3 MOD	11/24-11/29/10	0328344

Dilution Factor: 1

END OF REPORT

ANALYTICAL REPORT

REVISED

PROJECT NO. KC001590.0003.00002

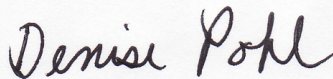
OGV OU2

Lot #: A0K190517

Paul Jack, ESPM

TRW Automotive Inc
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Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



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Approved for release.
Denise Pohl
Project Manager
3/2/2011 9:20 AM

March 01, 2011

TestAmerica Laboratories, Inc.

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CASE NARRATIVE

CASE NARRATIVE

A0K190517

Revised

The following report contains the analytical results for one water sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the OGV OU2 Site, project number KC001590.0003.00002. The samples were received November 19, 2010, according to documented sample acceptance procedures.

Revised report includes sample id change. Per client sample id MW-3 POTABLE listed on chain of custody should be MW-108 POTABLE-20101118.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.7°C.

GC/MS VOLATILES

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA_CWA 032609.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0K190517

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
NO DETECTABLE PARAMETERS				

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0K190517

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0K190517

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MAAN8	001	MW-108 POTABLE-20101118	11/18/10	13:56
MAAN9	002	TB-20101118	11/18/10	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

TestAmerica Knoxville - North Canton, OH
5015 Middlebrook Pike
Knoxville, TN 37921
Phone 865-291-0000 (Main)
Phone 865-291-3031 (Receiving)

North Canton, OH
4101 Shuffel Drive
North Canton, OH 44720
330-966-9789

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact		Project Manager: Denise Pohl		Site Contact:		COC Record _____ of _____	
Company Name: AREAD IS		Tel/Mobile:		Lab Contact:		Carrier:	
Address: 8725 Rosehill - Ste 350		Analysis Turnaround Time		Analysis (Attach list if more space is needed)		COC No: 01792	
City/State/Zip: Lenexa, KS 66215		Calendar (C) or Work Days (W)		Vols by 82608		Lab Use Only:	
Phone: (913) 492-0900		TAT if different from Below _____				Custody Seals Intact? Y N NA	
Project Name/Number: KC001590.0003.00002		<input type="checkbox"/> 2 weeks				Number of Packages: _____	
Site: TRW 06V 042		<input type="checkbox"/> 1 week				Temperature: _____ deg C	
P O #		<input type="checkbox"/> 2 days				Shipper: __ FedEx __ UPS __ Other: _____	
Sampled by: Larry Benalkin		<input type="checkbox"/> 1 day				Tracking Number: _____	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Recorded by: _____ Date: _____
MW-3 Potable	11/18/2010	1356	Water	Water	3	X	Sample Specific Notes:
TB-20101118	"	—	"	"	2	X	
Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Na ₂ S ₂ O ₃ Other _____							
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Special Instructions/QC Requirements & Comments:							
Relinquished by: Larry Benalkin		Company: AREAD IS		Date/Time: 11/18/10 - 1530		Received by: [Signature]	
Relinquished by:		Company:		Date/Time:		Received by:	
Relinquished by:		Company:		Date/Time:		Received by:	

TestAmerica Cooler Receipt Form/Narrative

 Lot Number: AOK190517
North Canton Facility

 Client ARCADIS Project TRW OGV 002 By: [Signature]

 Cooler Received on 11-19-10 Opened on 11-19-10 (Signature)

 FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐

 TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

 1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐

 If YES, Quantity 1 Quantity Unsalvageable _____

 Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐

 Were custody seals on the bottle(s)? Yes ☐ No ☒

If YES, are there any exceptions? _____

 2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐

 3. Did custody papers accompany the sample(s)? Yes ☒ No ☐

 4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐

 5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____

 6. Cooler temperature upon receipt 2-7 °C See back of form for multiple coolers/temps ☐

 METHOD: IR ☒ Other ☐

 COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

 7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

 8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐

 9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒

 10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

 11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐

 12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

 13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

 Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐

Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample

 Receiving to meet recommended pH level(s). Nitric Acid Lot# 051010-HNO₃; Sulfuric Acid Lot# 051010-H₂SO₄; Sodium

Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-

 (CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

[illegible]

GCMS VOLATILE DATA

TRW Automotive

Client Sample ID: MW-108 POTABLE-20101118

GC/MS Volatiles

Lot-Sample #...: A0K190517-001 Work Order #...: MAAN81AA Matrix.....: WG
 Date Sampled...: 11/18/10 13:56 Date Received...: 11/19/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0336168
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108 POTABLE-20101118

GC/MS Volatiles

Lot-Sample #...: A0K190517-001 Work Order #...: MAAN81AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	82	(63 - 129)
Toluene-d8	89	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)

TRW Automotive

Client Sample ID: TB-20101118

GC/MS Volatiles

Lot-Sample #...: A0K190517-002 Work Order #...: MAAN91AA Matrix.....: WQ
 Date Sampled...: 11/18/10 Date Received...: 11/19/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0336168
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20101118

GC/MS Volatiles

Lot-Sample #...: A0K190517-002 Work Order #...: MAAN91AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K190517
MB Lot-Sample #: A0L020000-168

Work Order #...: MAQH71AA

Matrix.....: WATER

Analysis Date...: 12/01/10

Prep Date.....: 12/01/10

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 0336168

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K190517

Work Order #...: MAQH71AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
n-Propylbenzene	ND	1.0	ug/L	SW846	8260B
Styrene	ND	1.0	ug/L	SW846	8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
Tetrachloroethene	ND	1.0	ug/L	SW846	8260B
Toluene	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846	8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846	8260B
Trichloroethene	ND	1.0	ug/L	SW846	8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846	8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
Vinyl chloride	ND	1.0	ug/L	SW846	8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846	8260B
o-Xylene	ND	1.0	ug/L	SW846	8260B
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
Dibromofluoromethane	86		(75 - 121)		
1,2-Dichloroethane-d4	79		(63 - 129)		
Toluene-d8	90		(74 - 115)		
4-Bromofluorobenzene	98		(66 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MAQH71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD
 Prep Date.....: 12/01/10 Analysis Date...: 12/01/10
 Prep Batch #...: 0336168
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	96	(83 - 112)			SW846 8260B
	95	(83 - 112)	0.86	(0-30)	SW846 8260B
Acetone	64	(43 - 136)			SW846 8260B
	68	(43 - 136)	5.9	(0-30)	SW846 8260B
Bromobenzene	81	(76 - 115)			SW846 8260B
	90	(76 - 115)	11	(0-30)	SW846 8260B
Carbon disulfide	114	(62 - 142)			SW846 8260B
	99	(62 - 142)	14	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	98	(82 - 114)			SW846 8260B
	91	(82 - 114)	7.0	(0-30)	SW846 8260B
Bromochloromethane	96	(77 - 120)			SW846 8260B
	90	(77 - 120)	6.0	(0-30)	SW846 8260B
2-Butanone	66	(60 - 126)			SW846 8260B
	74	(60 - 126)	11	(0-30)	SW846 8260B
Bromodichloromethane	86	(72 - 121)			SW846 8260B
	91	(72 - 121)	5.3	(0-30)	SW846 8260B
Bromoform	80	(40 - 131)			SW846 8260B
	80	(40 - 131)	0.42	(0-30)	SW846 8260B
Bromomethane	83	(11 - 185)			SW846 8260B
	58 p	(11 - 185)	35	(0-30)	SW846 8260B
n-Butylbenzene	96	(66 - 125)			SW846 8260B
	100	(66 - 125)	4.5	(0-30)	SW846 8260B
4-Methyl-2-pentanone	69	(63 - 128)			SW846 8260B
	77	(63 - 128)	10	(0-30)	SW846 8260B
2-Hexanone	69	(55 - 133)			SW846 8260B
	74	(55 - 133)	6.6	(0-30)	SW846 8260B
sec-Butylbenzene	88	(70 - 117)			SW846 8260B
	96	(70 - 117)	8.8	(0-30)	SW846 8260B
tert-Butylbenzene	83	(71 - 115)			SW846 8260B
	92	(71 - 115)	9.9	(0-30)	SW846 8260B
Xylenes (total)	101	(83 - 112)			SW846 8260B
	97	(83 - 112)	4.3	(0-30)	SW846 8260B
Carbon tetrachloride	98	(66 - 128)			SW846 8260B
	92	(66 - 128)	6.2	(0-30)	SW846 8260B
Chlorobenzene	96	(85 - 110)			SW846 8260B
	96	(85 - 110)	0.77	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MAQH71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromochloromethane	85	(64 - 119)			SW846 8260B
	88	(64 - 119)	4.1	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	115	(74 - 151)			SW846 8260B
	107	(74 - 151)	6.9	(0-30)	SW846 8260B
Methyl acetate	81	(58 - 131)			SW846 8260B
	80	(58 - 131)	2.1	(0-30)	SW846 8260B
Chloroethane	91	(25 - 153)			SW846 8260B
	73	(25 - 153)	22	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	83	(52 - 144)			SW846 8260B
	79	(52 - 144)	5.3	(0-30)	SW846 8260B
Cyclohexane	95	(54 - 121)			SW846 8260B
	92	(54 - 121)	3.2	(0-30)	SW846 8260B
Methylcyclohexane	90	(56 - 127)			SW846 8260B
	87	(56 - 127)	3.6	(0-30)	SW846 8260B
Chloroform	97	(79 - 117)			SW846 8260B
	90	(79 - 117)	7.4	(0-30)	SW846 8260B
Chloromethane	108	(44 - 126)			SW846 8260B
	98	(44 - 126)	9.6	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	92	(42 - 136)			SW846 8260B
	96	(42 - 136)	4.6	(0-30)	SW846 8260B
2-Chlorotoluene	84	(76 - 116)			SW846 8260B
	92	(76 - 116)	8.9	(0-30)	SW846 8260B
Methyl tert-butyl ether	83	(52 - 144)			SW846 8260B
	79	(52 - 144)	5.3	(0-30)	SW846 8260B
n-Hexane	92	(66 - 137)			SW846 8260B
	95	(66 - 137)	3.1	(0-30)	SW846 8260B
4-Chlorotoluene	83	(77 - 115)			SW846 8260B
	90	(77 - 115)	8.9	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	62	(52 - 131)			SW846 8260B
	84	(52 - 131)	30	(0-30)	SW846 8260B
1,2-Dibromoethane	88	(79 - 113)			SW846 8260B
	93	(79 - 113)	5.5	(0-30)	SW846 8260B
Vinyl acetate	84	(46 - 161)			SW846 8260B
	85	(46 - 161)	1.2	(0-30)	SW846 8260B
Dibromomethane	92	(81 - 120)			SW846 8260B
	94	(81 - 120)	2.0	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MAQH71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichlorobenzene	99	(81 - 110)			SW846 8260B
	100	(81 - 110)	1.2	(0-30)	SW846 8260B
1,3-Dichlorobenzene	93	(80 - 110)			SW846 8260B
	97	(80 - 110)	4.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	91	(82 - 110)			SW846 8260B
	94	(82 - 110)	3.4	(0-30)	SW846 8260B
Iodomethane	119	(72 - 141)			SW846 8260B
	94	(72 - 141)	23	(0-30)	SW846 8260B
Isopropyl ether	92	(77 - 118)			SW846 8260B
	88	(77 - 118)	4.1	(0-30)	SW846 8260B
Dichlorodifluoromethane	90	(19 - 129)			SW846 8260B
	82	(19 - 129)	9.4	(0-30)	SW846 8260B
1,1-Dichloroethane	98	(82 - 115)			SW846 8260B
	92	(82 - 115)	6.2	(0-30)	SW846 8260B
1,2-Dichloroethane	88	(71 - 127)			SW846 8260B
	86	(71 - 127)	1.7	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	97	(80 - 113)			SW846 8260B
	91	(80 - 113)	6.4	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	99	(83 - 117)			SW846 8260B
	92	(83 - 117)	7.7	(0-30)	SW846 8260B
1,1-Dichloroethene	101	(78 - 131)			SW846 8260B
	94	(78 - 131)	7.2	(0-30)	SW846 8260B
1,2-Dichloropropane	93	(81 - 115)			SW846 8260B
	98	(81 - 115)	5.0	(0-30)	SW846 8260B
1,3-Dichloropropane	91	(79 - 116)			SW846 8260B
	98	(79 - 116)	7.5	(0-30)	SW846 8260B
2,2-Dichloropropane	83	(50 - 129)			SW846 8260B
	74	(50 - 129)	11	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	75	(61 - 115)			SW846 8260B
	90	(61 - 115)	18	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	80	(58 - 117)			SW846 8260B
	93	(58 - 117)	15	(0-30)	SW846 8260B
1,1-Dichloropropene	94	(83 - 114)			SW846 8260B
	92	(83 - 114)	1.6	(0-30)	SW846 8260B
Ethylbenzene	96	(83 - 112)			SW846 8260B
	94	(83 - 112)	1.4	(0-30)	SW846 8260B
Hexachlorobutadiene	88	(36 - 134)			SW846 8260B
	90	(36 - 134)	2.0	(0-30)	SW846 8260B
Isopropylbenzene	103	(75 - 114)			SW846 8260B
	97	(75 - 114)	6.4	(0-30)	SW846 8260B
p-Isopropyltoluene	94	(74 - 120)			SW846 8260B
	102	(74 - 120)	7.2	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MAQH71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methylene chloride	101	(66 - 131)			SW846 8260B
	93	(66 - 131)	9.2	(0-30)	SW846 8260B
Naphthalene	96	(32 - 141)			SW846 8260B
	102	(32 - 141)	6.6	(0-30)	SW846 8260B
n-Propylbenzene	84	(74 - 121)			SW846 8260B
	92	(74 - 121)	10	(0-30)	SW846 8260B
Styrene	102	(79 - 114)			SW846 8260B
	101	(79 - 114)	1.2	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	102	(72 - 116)			SW846 8260B
	94	(72 - 116)	8.9	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	87	(68 - 118)			SW846 8260B
	91	(68 - 118)	4.6	(0-30)	SW846 8260B
Tetrachloroethene	95	(79 - 114)			SW846 8260B
	94	(79 - 114)	0.28	(0-30)	SW846 8260B
Toluene	99	(84 - 111)			SW846 8260B
	98	(84 - 111)	0.78	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	97	(54 - 126)			SW846 8260B
	103	(54 - 126)	5.3	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	99	(48 - 135)			SW846 8260B
	104	(48 - 135)	5.0	(0-30)	SW846 8260B
1,1,1-Trichloroethane	93	(74 - 118)			SW846 8260B
	87	(74 - 118)	6.4	(0-30)	SW846 8260B
1,1,2-Trichloroethane	98	(80 - 112)			SW846 8260B
	100	(80 - 112)	1.7	(0-30)	SW846 8260B
Trichloroethene	92	(76 - 117)			SW846 8260B
	94	(76 - 117)	1.8	(0-20)	SW846 8260B
Trichlorofluoromethane	104	(49 - 157)			SW846 8260B
	78	(49 - 157)	29	(0-30)	SW846 8260B
1,2,3-Trichloropropane	80	(73 - 129)			SW846 8260B
	88	(73 - 129)	8.6	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	96	(76 - 120)			SW846 8260B
	101	(76 - 120)	5.2	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	89	(72 - 118)			SW846 8260B
	96	(72 - 118)	8.2	(0-30)	SW846 8260B
Vinyl chloride	103	(53 - 127)			SW846 8260B
	93	(53 - 127)	10	(0-30)	SW846 8260B
m-Xylene & p-Xylene	99	(83 - 113)			SW846 8260B
	96	(83 - 113)	3.2	(0-30)	SW846 8260B
o-Xylene	105	(83 - 113)			SW846 8260B
	98	(83 - 113)	6.4	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MAQH71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	90	(75 - 121)
	84	(75 - 121)
1,2-Dichloroethane-d4	78	(63 - 129)
	76	(63 - 129)
Toluene-d8	96	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	109	(66 - 117)
	104	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MAQH71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD
 Prep Date.....: 12/01/10 Analysis Date...: 12/01/10
 Prep Batch #...: 0336168
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	10	9.6	ug/L	96		SW846 8260B
	10	9.5	ug/L	95	0.86	SW846 8260B
Acetone	20	13	ug/L	64		SW846 8260B
	20	14	ug/L	68	5.9	SW846 8260B
Bromobenzene	10	8.1	ug/L	81		SW846 8260B
	10	9.0	ug/L	90	11	SW846 8260B
Carbon disulfide	10	11	ug/L	114		SW846 8260B
	10	9.9	ug/L	99	14	SW846 8260B
1,2-Dichloroethene (total)	20	20	ug/L	98		SW846 8260B
	20	18	ug/L	91	7.0	SW846 8260B
Bromochloromethane	10	9.6	ug/L	96		SW846 8260B
	10	9.0	ug/L	90	6.0	SW846 8260B
2-Butanone	20	13	ug/L	66		SW846 8260B
	20	15	ug/L	74	11	SW846 8260B
Bromodichloromethane	10	8.6	ug/L	86		SW846 8260B
	10	9.1	ug/L	91	5.3	SW846 8260B
Bromoform	10	8.0	ug/L	80		SW846 8260B
	10	8.0	ug/L	80	0.42	SW846 8260B
Bromomethane	10	8.3	ug/L	83		SW846 8260B
	10	5.8 p	ug/L	58	35	SW846 8260B
n-Butylbenzene	10	9.6	ug/L	96		SW846 8260B
	10	10	ug/L	100	4.5	SW846 8260B
4-Methyl-2-pentanone	20	14	ug/L	69		SW846 8260B
	20	15	ug/L	77	10	SW846 8260B
2-Hexanone	20	14	ug/L	69		SW846 8260B
	20	15	ug/L	74	6.6	SW846 8260B
sec-Butylbenzene	10	8.8	ug/L	88		SW846 8260B
	10	9.6	ug/L	96	8.8	SW846 8260B
tert-Butylbenzene	10	8.3	ug/L	83		SW846 8260B
	10	9.2	ug/L	92	9.9	SW846 8260B
Xylenes (total)	30	30	ug/L	101		SW846 8260B
	30	29	ug/L	97	4.3	SW846 8260B
Carbon tetrachloride	10	9.8	ug/L	98		SW846 8260B
	10	9.2	ug/L	92	6.2	SW846 8260B
Chlorobenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.6	ug/L	96	0.77	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 **Work Order #...**: MAQH71AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Dibromochloromethane	10	8.5	ug/L	85		SW846 8260B
	10	8.8	ug/L	88	4.1	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	11	ug/L	115		SW846 8260B
	10	11	ug/L	107	6.9	SW846 8260B
Methyl acetate	10	8.1	ug/L	81		SW846 8260B
	10	8.0	ug/L	80	2.1	SW846 8260B
Chloroethane	10	9.1	ug/L	91		SW846 8260B
	10	7.3	ug/L	73	22	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	8.3	ug/L	83		SW846 8260B
	10	7.9	ug/L	79	5.3	SW846 8260B
Cyclohexane	10	9.5	ug/L	95		SW846 8260B
	10	9.2	ug/L	92	3.2	SW846 8260B
Methylcyclohexane	10	9.0	ug/L	90		SW846 8260B
	10	8.7	ug/L	87	3.6	SW846 8260B
Chloroform	10	9.7	ug/L	97		SW846 8260B
	10	9.0	ug/L	90	7.4	SW846 8260B
Chloromethane	10	11	ug/L	108		SW846 8260B
	10	9.8	ug/L	98	9.6	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.2	ug/L	92		SW846 8260B
	10	9.6	ug/L	96	4.6	SW846 8260B
2-Chlorotoluene	10	8.4	ug/L	84		SW846 8260B
	10	9.2	ug/L	92	8.9	SW846 8260B
Methyl tert-butyl ether	10	8.3	ug/L	83		SW846 8260B
	10	7.9	ug/L	79	5.3	SW846 8260B
n-Hexane	10	9.2	ug/L	92		SW846 8260B
	10	9.5	ug/L	95	3.1	SW846 8260B
4-Chlorotoluene	10	8.3	ug/L	83		SW846 8260B
	10	9.0	ug/L	90	8.9	SW846 8260B
2-Chloroethyl vinyl ether	10	6.2	ug/L	62		SW846 8260B
	10	8.4	ug/L	84	30	SW846 8260B
1,2-Dibromoethane	10	8.8	ug/L	88		SW846 8260B
	10	9.3	ug/L	93	5.5	SW846 8260B
Vinyl acetate	10	8.4	ug/L	84		SW846 8260B
	10	8.5	ug/L	85	1.2	SW846 8260B
Dibromomethane	10	9.2	ug/L	92		SW846 8260B
	10	9.4	ug/L	94	2.0	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 **Work Order #...**: MAQH71AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
1,2-Dichlorobenzene	10	9.9	ug/L	99		SW846 8260B
	10	10	ug/L	100	1.2	SW846 8260B
1,3-Dichlorobenzene	10	9.3	ug/L	93		SW846 8260B
	10	9.7	ug/L	97	4.0	SW846 8260B
1,4-Dichlorobenzene	10	9.1	ug/L	91		SW846 8260B
	10	9.4	ug/L	94	3.4	SW846 8260B
Iodomethane	10	12	ug/L	119		SW846 8260B
	10	9.4	ug/L	94	23	SW846 8260B
Isopropyl ether	10	9.2	ug/L	92		SW846 8260B
	10	8.8	ug/L	88	4.1	SW846 8260B
Dichlorodifluoromethane	10	9.0	ug/L	90		SW846 8260B
	10	8.2	ug/L	82	9.4	SW846 8260B
1,1-Dichloroethane	10	9.8	ug/L	98		SW846 8260B
	10	9.2	ug/L	92	6.2	SW846 8260B
1,2-Dichloroethane	10	8.8	ug/L	88		SW846 8260B
	10	8.6	ug/L	86	1.7	SW846 8260B
cis-1,2-Dichloroethene	10	9.7	ug/L	97		SW846 8260B
	10	9.1	ug/L	91	6.4	SW846 8260B
trans-1,2-Dichloroethene	10	9.9	ug/L	99		SW846 8260B
	10	9.2	ug/L	92	7.7	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	101		SW846 8260B
	10	9.4	ug/L	94	7.2	SW846 8260B
1,2-Dichloropropane	10	9.3	ug/L	93		SW846 8260B
	10	9.8	ug/L	98	5.0	SW846 8260B
1,3-Dichloropropane	10	9.1	ug/L	91		SW846 8260B
	10	9.8	ug/L	98	7.5	SW846 8260B
2,2-Dichloropropane	10	8.3	ug/L	83		SW846 8260B
	10	7.4	ug/L	74	11	SW846 8260B
cis-1,3-Dichloropropene	10	7.5	ug/L	75		SW846 8260B
	10	9.0	ug/L	90	18	SW846 8260B
trans-1,3-Dichloropropene	10	8.0	ug/L	80		SW846 8260B
	10	9.3	ug/L	93	15	SW846 8260B
1,1-Dichloropropene	10	9.4	ug/L	94		SW846 8260B
	10	9.2	ug/L	92	1.6	SW846 8260B
Ethylbenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.4	ug/L	94	1.4	SW846 8260B
Hexachlorobutadiene	10	8.8	ug/L	88		SW846 8260B
	10	9.0	ug/L	90	2.0	SW846 8260B
Isopropylbenzene	10	10	ug/L	103		SW846 8260B
	10	9.7	ug/L	97	6.4	SW846 8260B
p-Isopropyltoluene	10	9.4	ug/L	94		SW846 8260B
	10	10	ug/L	102	7.2	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 **Work Order #...**: MAQH71AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Methylene chloride	10	10	ug/L	101		SW846 8260B
	10	9.3	ug/L	93	9.2	SW846 8260B
Naphthalene	10	9.6	ug/L	96		SW846 8260B
	10	10	ug/L	102	6.6	SW846 8260B
n-Propylbenzene	10	8.4	ug/L	84		SW846 8260B
	10	9.2	ug/L	92	10	SW846 8260B
Styrene	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	101	1.2	SW846 8260B
1,1,1,2-Tetrachloroethane	10	10	ug/L	102		SW846 8260B
	10	9.4	ug/L	94	8.9	SW846 8260B
1,1,2,2-Tetrachloroethane	10	8.7	ug/L	87		SW846 8260B
	10	9.1	ug/L	91	4.6	SW846 8260B
Tetrachloroethene	10	9.5	ug/L	95		SW846 8260B
	10	9.4	ug/L	94	0.28	SW846 8260B
Toluene	10	9.9	ug/L	99		SW846 8260B
	10	9.8	ug/L	98	0.78	SW846 8260B
1,2,3-Trichlorobenzene	10	9.7	ug/L	97		SW846 8260B
	10	10	ug/L	103	5.3	SW846 8260B
1,2,4-Trichloro- benzene	10	9.9	ug/L	99		SW846 8260B
	10	10	ug/L	104	5.0	SW846 8260B
1,1,1-Trichloroethane	10	9.3	ug/L	93		SW846 8260B
	10	8.7	ug/L	87	6.4	SW846 8260B
1,1,2-Trichloroethane	10	9.8	ug/L	98		SW846 8260B
	10	10	ug/L	100	1.7	SW846 8260B
Trichloroethene	10	9.2	ug/L	92		SW846 8260B
	10	9.4	ug/L	94	1.8	SW846 8260B
Trichlorofluoromethane	10	10	ug/L	104		SW846 8260B
	10	7.8	ug/L	78	29	SW846 8260B
1,2,3-Trichloropropane	10	8.0	ug/L	80		SW846 8260B
	10	8.8	ug/L	88	8.6	SW846 8260B
1,2,4-Trimethylbenzene	10	9.6	ug/L	96		SW846 8260B
	10	10	ug/L	101	5.2	SW846 8260B
1,3,5-Trimethylbenzene	10	8.9	ug/L	89		SW846 8260B
	10	9.6	ug/L	96	8.2	SW846 8260B
Vinyl chloride	10	10	ug/L	103		SW846 8260B
	10	9.3	ug/L	93	10	SW846 8260B
m-Xylene & p-Xylene	20	20	ug/L	99		SW846 8260B
	20	19	ug/L	96	3.2	SW846 8260B
o-Xylene	10	10	ug/L	105		SW846 8260B
	10	9.8	ug/L	98	6.4	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MAQH71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L020000-168 MAQH71AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	90	(75 - 121)
	84	(75 - 121)
1,2-Dichloroethane-d4	78	(63 - 129)
	76	(63 - 129)
Toluene-d8	96	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	109	(66 - 117)
	104	(66 - 117)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
 MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD
 Date Sampled...: 11/18/10 08:20 Date Received...: 11/19/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0336168
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	94	(72 - 121)			SW846 8260B
	93	(72 - 121)	1.2	(0-30)	SW846 8260B
Bromobenzene	83	(71 - 116)			SW846 8260B
	81	(71 - 116)	2.2	(0-30)	SW846 8260B
Acetone	74	(33 - 145)			SW846 8260B
	72	(33 - 145)	1.6	(0-30)	SW846 8260B
Carbon disulfide	98	(57 - 147)			SW846 8260B
	102	(57 - 147)	4.0	(0-30)	SW846 8260B
Bromochloromethane	90	(73 - 121)			SW846 8260B
	92	(73 - 121)	1.6	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	91	(75 - 119)			SW846 8260B
	92	(75 - 119)	0.63	(0-30)	SW846 8260B
Bromodichloromethane	86	(67 - 120)			SW846 8260B
	87	(67 - 120)	0.54	(0-30)	SW846 8260B
2-Butanone	72	(54 - 129)			SW846 8260B
	74	(54 - 129)	2.4	(0-30)	SW846 8260B
Bromoform	74	(32 - 128)			SW846 8260B
	74	(32 - 128)	0.69	(0-30)	SW846 8260B
Bromomethane	78	(10 - 186)			SW846 8260B
	66	(10 - 186)	17	(0-30)	SW846 8260B
n-Butylbenzene	87	(56 - 127)			SW846 8260B
	87	(56 - 127)	0.82	(0-30)	SW846 8260B
4-Methyl-2-pentanone	74	(56 - 131)			SW846 8260B
	73	(56 - 131)	1.7	(0-30)	SW846 8260B
sec-Butylbenzene	83	(60 - 119)			SW846 8260B
	82	(60 - 119)	0.66	(0-30)	SW846 8260B
2-Hexanone	70	(47 - 139)			SW846 8260B
	67	(47 - 139)	4.6	(0-30)	SW846 8260B
tert-Butylbenzene	81	(61 - 119)			SW846 8260B
	79	(61 - 119)	3.0	(0-30)	SW846 8260B
Carbon tetrachloride	89	(59 - 129)			SW846 8260B
	89	(59 - 129)	0.04	(0-30)	SW846 8260B
Xylenes (total)	93	(76 - 116)			SW846 8260B
	91	(76 - 116)	1.4	(0-30)	SW846 8260B
Chlorobenzene	91	(80 - 110)			SW846 8260B
	90	(80 - 110)	0.76	(0-30)	SW846 8260B
Dibromochloromethane	84	(56 - 118)			SW846 8260B
	82	(56 - 118)	1.6	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	93	(70 - 152)			SW846 8260B
	97	(70 - 152)	3.7	(0-30)	SW846 8260B
Methyl acetate	72	(47 - 130)			SW846 8260B
	69	(47 - 130)	4.0	(0-30)	SW846 8260B
Chloroethane	84	(21 - 165)			SW846 8260B
	79	(21 - 165)	6.2	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	79	(46 - 144)			SW846 8260B
	79	(46 - 144)	0.25	(0-30)	SW846 8260B
Cyclohexane	79	(49 - 123)			SW846 8260B
	78	(49 - 123)	1.2	(0-30)	SW846 8260B
Methylcyclohexane	72	(49 - 127)			SW846 8260B
	70	(49 - 127)	2.2	(0-30)	SW846 8260B
Chloroform	90	(76 - 118)			SW846 8260B
	90	(76 - 118)	0.74	(0-30)	SW846 8260B
Chloromethane	99	(33 - 132)			SW846 8260B
	99	(33 - 132)	0.22	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(32 - 139)			SW846 8260B
	94	(32 - 139)	0.87	(0-30)	SW846 8260B
2-Chlorotoluene	83	(69 - 117)			SW846 8260B
	81	(69 - 117)	2.4	(0-30)	SW846 8260B
Methyl tert-butyl ether	79	(46 - 144)			SW846 8260B
	79	(46 - 144)	0.25	(0-30)	SW846 8260B
n-Hexane	74	(54 - 138)			SW846 8260B
	70	(54 - 138)	5.8	(0-30)	SW846 8260B
4-Chlorotoluene	82	(71 - 116)			SW846 8260B
	81	(71 - 116)	1.3	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
1,2-Dibromoethane	89	(74 - 113)			SW846 8260B
	88	(74 - 113)	0.88	(0-30)	SW846 8260B
Vinyl acetate	82	(43 - 157)			SW846 8260B
	81	(43 - 157)	1.2	(0-30)	SW846 8260B
Dibromomethane	92	(77 - 121)			SW846 8260B
	92	(77 - 121)	0.23	(0-30)	SW846 8260B
1,2-Dichlorobenzene	94	(75 - 111)			SW846 8260B
	95	(75 - 111)	0.73	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	89	(73 - 110)			SW846 8260B
	88	(73 - 110)	0.44	(0-30)	SW846 8260B
1,4-Dichlorobenzene	87	(75 - 110)			SW846 8260B
	87	(75 - 110)	0.41	(0-30)	SW846 8260B
Iodomethane	98	(66 - 144)			SW846 8260B
	103	(66 - 144)	5.2	(0-30)	SW846 8260B
Isopropyl ether	88	(73 - 118)			SW846 8260B
	88	(73 - 118)	0.36	(0-30)	SW846 8260B
Dichlorodifluoromethane	74	(17 - 128)			SW846 8260B
	77	(17 - 128)	3.4	(0-30)	SW846 8260B
1,1-Dichloroethane	92	(79 - 116)			SW846 8260B
	93	(79 - 116)	0.95	(0-30)	SW846 8260B
1,2-Dichloroethane	85	(68 - 129)			SW846 8260B
	85	(68 - 129)	0.05	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	91	(70 - 120)			SW846 8260B
	91	(70 - 120)	0.12	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	92	(80 - 119)			SW846 8260B
	93	(80 - 119)	1.2	(0-30)	SW846 8260B
1,1-Dichloroethene	93	(74 - 135)			SW846 8260B
	95	(74 - 135)	1.6	(0-30)	SW846 8260B
1,2-Dichloropropane	93	(78 - 115)			SW846 8260B
	92	(78 - 115)	0.42	(0-30)	SW846 8260B
1,3-Dichloropropane	93	(74 - 118)			SW846 8260B
	91	(74 - 118)	2.2	(0-30)	SW846 8260B
2,2-Dichloropropane	66	(38 - 127)			SW846 8260B
	69	(38 - 127)	3.4	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	76	(51 - 110)			SW846 8260B
	78	(51 - 110)	1.9	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	83	(46 - 116)			SW846 8260B
	82	(46 - 116)	0.89	(0-30)	SW846 8260B
1,1-Dichloropropene	89	(80 - 114)			SW846 8260B
	88	(80 - 114)	1.1	(0-30)	SW846 8260B
Ethylbenzene	90	(75 - 116)			SW846 8260B
	88	(75 - 116)	2.2	(0-30)	SW846 8260B
Hexachlorobutadiene	78	(27 - 132)			SW846 8260B
	86	(27 - 132)	10	(0-30)	SW846 8260B
Isopropylbenzene	89	(68 - 116)			SW846 8260B
	90	(68 - 116)	0.45	(0-30)	SW846 8260B
p-Isopropyltoluene	88	(64 - 122)			SW846 8260B
	88	(64 - 122)	0.23	(0-30)	SW846 8260B
Methylene chloride	100	(63 - 128)			SW846 8260B
	100	(63 - 128)	0.21	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	97	(15 - 158)			SW846 8260B
	101	(15 - 158)	3.8	(0-30)	SW846 8260B
n-Propylbenzene	80	(64 - 124)			SW846 8260B
	78	(64 - 124)	2.0	(0-30)	SW846 8260B
Styrene	95	(71 - 117)			SW846 8260B
	94	(71 - 117)	1.6	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	90	(64 - 118)			SW846 8260B
	92	(64 - 118)	1.6	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	90	(63 - 122)			SW846 8260B
	88	(63 - 122)	2.7	(0-30)	SW846 8260B
Tetrachloroethene	88	(70 - 117)			SW846 8260B
	84	(70 - 117)	4.6	(0-30)	SW846 8260B
Toluene	94	(78 - 114)			SW846 8260B
	92	(78 - 114)	2.0	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	96	(45 - 129)			SW846 8260B
	101	(45 - 129)	5.5	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	96	(38 - 138)			SW846 8260B
	100	(38 - 138)	4.6	(0-30)	SW846 8260B
1,1,1-Trichloroethane	86	(68 - 121)			SW846 8260B
	86	(68 - 121)	0.60	(0-30)	SW846 8260B
1,1,2-Trichloroethane	96	(75 - 115)			SW846 8260B
	94	(75 - 115)	1.8	(0-30)	SW846 8260B
Trichloroethene	88	(66 - 120)			SW846 8260B
	87	(66 - 120)	0.30	(0-30)	SW846 8260B
Trichlorofluoromethane	80	(46 - 157)			SW846 8260B
	82	(46 - 157)	2.0	(0-30)	SW846 8260B
1,2,3-Trichloropropane	84	(67 - 132)			SW846 8260B
	81	(67 - 132)	3.8	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	92	(67 - 124)			SW846 8260B
	92	(67 - 124)	0.08	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	86	(63 - 121)			SW846 8260B
	84	(63 - 121)	2.1	(0-30)	SW846 8260B
Vinyl chloride	93	(49 - 130)			SW846 8260B
	96	(49 - 130)	3.8	(0-30)	SW846 8260B
m-Xylene & p-Xylene	92	(75 - 117)			SW846 8260B
	90	(75 - 117)	1.9	(0-30)	SW846 8260B
o-Xylene	94	(76 - 116)			SW846 8260B
	94	(76 - 116)	0.61	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	87	(75 - 121)
	86	(75 - 121)
1,2-Dichloroethane-d4	77	(63 - 129)
	77	(63 - 129)
Toluene-d8	95	(74 - 115)
	93	(74 - 115)
4-Bromofluorobenzene	105	(66 - 117)
	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
 MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD
 Date Sampled...: 11/18/10 08:20 Date Received...: 11/19/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0336168
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.3	ug/L	93	1.2	SW846 8260B
Bromobenzene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.1	ug/L	81	2.2	SW846 8260B
Acetone	ND	20	18	ug/L	74		SW846 8260B
	ND	20	18	ug/L	72	1.6	SW846 8260B
Carbon disulfide	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	102	4.0	SW846 8260B
Bromochloromethane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.2	ug/L	92	1.6	SW846 8260B
1,2-Dichloroethene (total)	ND	20	18	ug/L	91		SW846 8260B
	ND	20	18	ug/L	92	0.63	SW846 8260B
Bromodichloromethane	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.7	ug/L	87	0.54	SW846 8260B
2-Butanone	ND	20	16	ug/L	72		SW846 8260B
	ND	20	16	ug/L	74	2.4	SW846 8260B
Bromoform	ND	10	7.4	ug/L	74		SW846 8260B
	ND	10	7.4	ug/L	74	0.69	SW846 8260B
Bromomethane	ND	10	7.8	ug/L	78		SW846 8260B
	ND	10	6.6	ug/L	66	17	SW846 8260B
n-Butylbenzene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.7	ug/L	87	0.82	SW846 8260B
4-Methyl-2-pentanone	ND	20	15	ug/L	74		SW846 8260B
	ND	20	15	ug/L	73	1.7	SW846 8260B
sec-Butylbenzene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.2	ug/L	82	0.66	SW846 8260B
2-Hexanone	ND	20	14	ug/L	70		SW846 8260B
	ND	20	13	ug/L	67	4.6	SW846 8260B
tert-Butylbenzene	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	7.9	ug/L	79	3.0	SW846 8260B
Carbon tetrachloride	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.9	ug/L	89	0.04	SW846 8260B
Xylenes (total)	ND	30	28	ug/L	93		SW846 8260B
	ND	30	27	ug/L	91	1.4	SW846 8260B
Chlorobenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.0	ug/L	90	0.76	SW846 8260B
Dibromochloromethane	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.2	ug/L	82	1.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.7	ug/L	97	3.7	SW846 8260B
Methyl acetate	ND	10	7.2	ug/L	72		SW846 8260B
	ND	10	6.9	ug/L	69	4.0	SW846 8260B
Chloroethane	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	7.9	ug/L	79	6.2	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	7.9	ug/L	79	0.25	SW846 8260B
Cyclohexane	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	7.8	ug/L	78	1.2	SW846 8260B
Methylcyclohexane	ND	10	7.2	ug/L	72		SW846 8260B
	ND	10	7.0	ug/L	70	2.2	SW846 8260B
Chloroform	2.5	10	12	ug/L	90		SW846 8260B
	2.5	10	11	ug/L	90	0.74	SW846 8260B
Chloromethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.9	ug/L	99	0.22	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.4	ug/L	94	0.87	SW846 8260B
2-Chlorotoluene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.1	ug/L	81	2.4	SW846 8260B
Methyl tert-butyl ether	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	7.9	ug/L	79	0.25	SW846 8260B
n-Hexane	ND	10	7.4	ug/L	74		SW846 8260B
	ND	10	7.0	ug/L	70	5.8	SW846 8260B
4-Chlorotoluene	ND	10	8.2	ug/L	82		SW846 8260B
	ND	10	8.1	ug/L	81	1.3	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	0.0	ug/L	0.0 a		SW846 8260B
	ND	10	0.0	ug/L	0.0 a	0.0	SW846 8260B
1,2-Dibromoethane	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.8	ug/L	88	0.88	SW846 8260B
Vinyl acetate	ND	10	8.2	ug/L	82		SW846 8260B
	ND	10	8.1	ug/L	81	1.2	SW846 8260B
Dibromomethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.2	ug/L	92	0.23	SW846 8260B
1,2-Dichlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.5	ug/L	95	0.73	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,3-Dichlorobenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.8	ug/L	88	0.44	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.7	ug/L	87	0.41	SW846 8260B
Iodomethane	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	103	5.2	SW846 8260B
Isopropyl ether	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	8.8	ug/L	88	0.36	SW846 8260B
Dichlorodifluoromethane	ND	10	7.4	ug/L	74		SW846 8260B
	ND	10	7.7	ug/L	77	3.4	SW846 8260B
1,1-Dichloroethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.3	ug/L	93	0.95	SW846 8260B
1,2-Dichloroethane	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.5	ug/L	85	0.05	SW846 8260B
cis-1,2-Dichloroethene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.1	ug/L	91	0.12	SW846 8260B
trans-1,2-Dichloroethene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.3	ug/L	93	1.2	SW846 8260B
1,1-Dichloroethene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.5	ug/L	95	1.6	SW846 8260B
1,2-Dichloropropane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.2	ug/L	92	0.42	SW846 8260B
1,3-Dichloropropane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.1	ug/L	91	2.2	SW846 8260B
2,2-Dichloropropane	ND	10	6.6	ug/L	66		SW846 8260B
	ND	10	6.9	ug/L	69	3.4	SW846 8260B
cis-1,3-Dichloropropene	ND	10	7.6	ug/L	76		SW846 8260B
	ND	10	7.8	ug/L	78	1.9	SW846 8260B
trans-1,3-Dichloropropene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.2	ug/L	82	0.89	SW846 8260B
1,1-Dichloropropene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.8	ug/L	88	1.1	SW846 8260B
Ethylbenzene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	8.8	ug/L	88	2.2	SW846 8260B
Hexachlorobutadiene	ND	10	7.8	ug/L	78		SW846 8260B
	ND	10	8.6	ug/L	86	10	SW846 8260B
Isopropylbenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.0	ug/L	90	0.45	SW846 8260B
p-Isopropyltoluene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	8.8	ug/L	88	0.23	SW846 8260B
Methylene chloride	ND	10	10	ug/L	100		SW846 8260B
	ND	10	10	ug/L	100	0.21	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Naphthalene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	10	ug/L	101	3.8	SW846 8260B
n-Propylbenzene	ND	10	8.0	ug/L	80		SW846 8260B
	ND	10	7.8	ug/L	78	2.0	SW846 8260B
Styrene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.4	ug/L	94	1.6	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.2	ug/L	92	1.6	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	8.8	ug/L	88	2.7	SW846 8260B
Tetrachloroethene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	8.4	ug/L	84	4.6	SW846 8260B
Toluene	1.9	10	11	ug/L	94		SW846 8260B
	1.9	10	11	ug/L	92	2.0	SW846 8260B
1,2,3-Trichlorobenzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	101	5.5	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	100	4.6	SW846 8260B
1,1,1-Trichloroethane	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.6	ug/L	86	0.60	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.4	ug/L	94	1.8	SW846 8260B
Trichloroethene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	8.7	ug/L	87	0.30	SW846 8260B
Trichlorofluoromethane	ND	10	8.0	ug/L	80		SW846 8260B
	ND	10	8.2	ug/L	82	2.0	SW846 8260B
1,2,3-Trichloropropane	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.1	ug/L	81	3.8	SW846 8260B
1,2,4-Trimethylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.2	ug/L	92	0.08	SW846 8260B
1,3,5-Trimethylbenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.4	ug/L	84	2.1	SW846 8260B
Vinyl chloride	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.6	ug/L	96	3.8	SW846 8260B
m-Xylene & p-Xylene	ND	20	18	ug/L	92		SW846 8260B
	ND	20	18	ug/L	90	1.9	SW846 8260B
o-Xylene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.4	ug/L	94	0.61	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K190517 Work Order #...: MACMD1AE-MS Matrix.....: WATER
MS Lot-Sample #: A0K190631-014 MACMD1AF-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	87	(75 - 121)
	86	(75 - 121)
1,2-Dichloroethane-d4	77	(63 - 129)
	77	(63 - 129)
Toluene-d8	95	(74 - 115)
	93	(74 - 115)
4-Bromofluorobenzene	105	(66 - 117)
	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

END OF REPORT

ANALYTICAL REPORT

REVISED

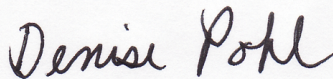
OGV OU2

Lot #: A0K200424

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
denise.pohl@testamericainc.com

Approved for release.
Denise Pohl
Project Manager
3/2/2011 9:24 AM

March 01, 2011

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720

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CASE NARRATIVE

CASE NARRATIVE

A0K200424

Revised

The following report contains the analytical results for one solid sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGVOU2 Site. The samples were received November 20, 2010, according to documented sample acceptance procedures.

Revised report includes sample id change. Per client sample id MW-3 BA@ 80' 20101119 listed on chain of custody should be MW-108 BH@80' 20101119.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.8°C.

See TestAmerica's Cooler Receipt Form for additional information.

GC/MS VOLATILES

The matrix spike/matrix spike duplicate(s) for batch(es) 0337316 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA _CWA 032609.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0K200424

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-108 BH@80' 20101119 11/19/10 08:45 001				
Dichlorofluoromethane	31	20	ug/kg	SW846 8260B
Methylene chloride	38	10	ug/kg	SW846 8260B
Percent Solids	50.1	10.0	%	MCAWW 160.3 MOD

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0K200424

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0K200424

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
MAC47	001	MW-108	BH@80' 20101119	11/19/10	08:45
MAC48	002	TB-20101119		11/19/10	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

TestAmerica Knoxville ~~Naugatuck Canyon~~
3615 Middlebrook Pike 4101 Shuttle Drive
Knoxville, TN 37921 NORTH CANTON OH 44720
Phone 865-291-3000 (Main) 330-966-9789
Phone 865-291-3031 (Receiving)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

14

Client Contact		Project Manager: <i>Denise Pohl</i>		Site Contact:		COC Record _____ of _____	
Company Name <i>ARCADIS</i>		Tel/Mobile:		Lab Contact:		Carrier:	
Address <i>8725 Rosehill St 330</i>		Analysis Turnaround Time		Analysis (Attach list if more space is needed)		COC No: <i>01793</i>	
City/State/Zip <i>Lexington, KY 66215</i>		Calendar (C) or Work Days (W) _____				Lab Use Only:	
Phone <i>913-492-0900</i>		TAT if different from Below _____				Custody Seals Intact? Y N NA	
Project Name/Number <i>TRW 06V 002</i>		<input type="checkbox"/> 2 weeks				Number of Packages: _____	
Site:		<input type="checkbox"/> 1 week				Temperature: _____ deg C	
P O # <i>KC001590.0003.00002</i>		<input type="checkbox"/> 2 days		Shipper: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Other:			
Sampled by <i>Larry Berolke</i>		<input type="checkbox"/> 1 day		Tracking Number:			
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Recorded by: _____ Date: _____
<i>MW-3 BH @ 00' 20101119</i>		<i>11/19/2010</i>	<i>0845</i>		<i>S&T</i>	<i>3</i>	Sample Specific Notes:
<i>TB-20101119</i>		<i>11</i>	<i>-</i>			<i>2</i>	
Preservation Used: <input checked="" type="checkbox"/> 1=Ice, <input checked="" type="checkbox"/> 2=HCl; 3=H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6=Na ₂ S ₂ O ₃ Other _____							
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments:							
Relinquished by: <i>Larry Berolke</i>		Company: <i>ARCADIS</i>		Date/Time: <i>11/19/10 0153</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Company:		Date/Time:		Received by:	
Relinquished by:		Company:		Date/Time:		Received by:	

RETURN WHITE COPY TO LAB WITH SAMPLES
KEEP YELLOW COPY FOR YOUR RECORDS

TAL-0046-140 (6/98)

North Canton

TestAmerica Cooler Receipt Form/Narrative

Lot Number: 40K200424

North Canton Facility

Client Accadis Project _____ By: [Signature]

Cooler Received on 11/20/10 Opened on 11/20/10

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____

TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐

If YES, Quantity 1 Quantity Unsalvageable _____

Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐

Were custody seals on the bottle(s)? Yes ☐ No ☒

If YES, are there any exceptions? _____

2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐

3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐

4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____

6. Cooler temperature upon receipt 1.8 °C See back of form for multiple coolers/temps ☐

METHOD: IR ☒ Other ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐

9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒

10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☒

12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐

Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

Due to large amount of sediment in all vials sample will
be run for solid per client conversation with PJO on 11/22/10.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample

Receiving to meet recommended pH level(s). Nitric Acid Lot# 051010-HNO₃; Sulfuric Acid Lot# 051010-H₂SO₄; Sodium

Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-

(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative North Canton Facility

[illegible]

Discrepancies Cont'd:

[illegible]

GCMS VOLATILE DATA

TRW Automotive

Client Sample ID: MW-108 BH@80' 20101119

GC/MS Volatiles

Lot-Sample #...: A0K200424-001 Work Order #...: MAC471AA Matrix.....: SO
 Date Sampled...: 11/19/10 08:45 Date Received...: 11/20/10
 Prep Date.....: 11/29/10 Analysis Date...: 11/29/10
 Prep Batch #...: 0335244
 Dilution Factor: 1 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 50 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	10	ug/kg
Bromobenzene	ND	10	ug/kg
Bromochloromethane	ND	10	ug/kg
Bromodichloromethane	ND	10	ug/kg
Bromoform	ND	10	ug/kg
Bromomethane	ND	10	ug/kg
n-Butylbenzene	ND	10	ug/kg
sec-Butylbenzene	ND	10	ug/kg
tert-Butylbenzene	ND	10	ug/kg
Carbon tetrachloride	ND	10	ug/kg
Chlorobenzene	ND	10	ug/kg
Dibromochloromethane	ND	10	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
2-Chlorotoluene	ND	10	ug/kg
4-Chlorotoluene	ND	10	ug/kg
1,2-Dibromoethane	ND	10	ug/kg
Dibromomethane	ND	10	ug/kg
1,2-Dichlorobenzene	ND	10	ug/kg
1,3-Dichlorobenzene	ND	10	ug/kg
1,4-Dichlorobenzene	ND	10	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	10	ug/kg
1,2-Dichloroethane	ND	10	ug/kg
cis-1,2-Dichloroethene	ND	10	ug/kg
trans-1,2-Dichloroethene	ND	10	ug/kg
1,1-Dichloroethene	ND	10	ug/kg
Dichlorofluoromethane	31	20	ug/kg
1,2-Dichloropropane	ND	10	ug/kg
1,3-Dichloropropane	ND	10	ug/kg
2,2-Dichloropropane	ND	10	ug/kg
cis-1,3-Dichloropropene	ND	10	ug/kg
trans-1,3-Dichloropropene	ND	10	ug/kg
1,1-Dichloropropene	ND	10	ug/kg
Ethylbenzene	ND	10	ug/kg
Hexachlorobutadiene	ND	10	ug/kg
Isopropylbenzene	ND	10	ug/kg

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108 BH@80' 20101119

GC/MS Volatiles

Lot-Sample #...: A0K200424-001 Work Order #...: MAC471AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	10	ug/kg
Methylene chloride	38	10	ug/kg
Naphthalene	ND	10	ug/kg
n-Propylbenzene	ND	10	ug/kg
Styrene	ND	10	ug/kg
1,1,1,2-Tetrachloroethane	ND	10	ug/kg
1,1,2,2-Tetrachloroethane	ND	10	ug/kg
Tetrachloroethene	ND	10	ug/kg
Toluene	ND	10	ug/kg
1,2,3-Trichlorobenzene	ND	10	ug/kg
1,2,4-Trichloro- benzene	ND	10	ug/kg
1,1,1-Trichloroethane	ND	10	ug/kg
1,1,2-Trichloroethane	ND	10	ug/kg
Trichloroethene	ND	10	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	10	ug/kg
1,2,4-Trimethylbenzene	ND	10	ug/kg
1,3,5-Trimethylbenzene	ND	10	ug/kg
Vinyl chloride	ND	10	ug/kg
m-Xylene & p-Xylene	ND	20	ug/kg
o-Xylene	ND	10	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(37 - 132)
Toluene-d8	106	(67 - 125)
4-Bromofluorobenzene	92	(52 - 136)
1,2-Dichloroethane-d4	102	(58 - 123)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

TRW Automotive

Client Sample ID: TB-20101119

GC/MS Volatiles

Lot-Sample #...: A0K200424-002 Work Order #...: MAC481AA Matrix.....: WQ
 Date Sampled...: 11/19/10 Date Received...: 11/20/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0337316
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB-20101119

GC/MS Volatiles

Lot-Sample #...: A0K200424-002 Work Order #...: MAC481AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K200424
MB Lot-Sample #: A0L010000-244

Work Order #...: MAPD51AA

Matrix.....: SOLID

Analysis Date...: 11/29/10

Prep Date.....: 11/29/10

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 0335244

Initial Wgt/Vol: 5 g

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	5.0	ug/kg	SW846	8260B
Bromobenzene	ND	5.0	ug/kg	SW846	8260B
Bromochloromethane	ND	5.0	ug/kg	SW846	8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846	8260B
Bromoform	ND	5.0	ug/kg	SW846	8260B
Bromomethane	ND	5.0	ug/kg	SW846	8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846	8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846	8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846	8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846	8260B
Chlorobenzene	ND	5.0	ug/kg	SW846	8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846	8260B
Chloroethane	ND	5.0	ug/kg	SW846	8260B
Chloroform	ND	5.0	ug/kg	SW846	8260B
Chloromethane	ND	5.0	ug/kg	SW846	8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846	8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846	8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846	8260B
Dibromomethane	ND	5.0	ug/kg	SW846	8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846	8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846	8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846	8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846	8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846	8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846	8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846	8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846	8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846	8260B
Dichlorofluoromethane	ND	10	ug/kg	SW846	8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846	8260B
1,3-Dichloropropane	ND	5.0	ug/kg	SW846	8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846	8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846	8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846	8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846	8260B
Ethylbenzene	ND	5.0	ug/kg	SW846	8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846	8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846	8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846	8260B
Methylene chloride	ND	5.0	ug/kg	SW846	8260B
Naphthalene	ND	5.0	ug/kg	SW846	8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K200424

Work Order #...: MAPD51AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trichloro- benzene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	10	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	109		(37 - 132)	
Toluene-d8	105		(67 - 125)	
4-Bromofluorobenzene	102		(52 - 136)	
1,2-Dichloroethane-d4	103		(58 - 123)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K200424
MB Lot-Sample #: A0L030000-316

Work Order #...: MAVGK1AA

Matrix.....: WATER

Analysis Date...: 12/02/10

Prep Date.....: 12/02/10

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 0337316

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0K200424

Work Order #...: MAVGK1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	90		(75 - 121)	
1,2-Dichloroethane-d4	79		(63 - 129)	
Toluene-d8	91		(74 - 115)	
4-Bromofluorobenzene	103		(66 - 117)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAPD51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD
 Prep Date.....: 11/29/10 Analysis Date...: 11/29/10
 Prep Batch #...: 0335244
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	96	(79 - 112)			SW846 8260B
	96	(79 - 112)	0.29	(0-30)	SW846 8260B
Acetone	109	(41 - 137)			SW846 8260B
	112	(41 - 137)	3.2	(0-30)	SW846 8260B
Bromobenzene	102	(81 - 115)			SW846 8260B
	102	(81 - 115)	0.070	(0-30)	SW846 8260B
Carbon disulfide	133	(62 - 146)			SW846 8260B
	116	(62 - 146)	13	(0-30)	SW846 8260B
Bromochloromethane	105	(79 - 111)			SW846 8260B
	107	(79 - 111)	2.5	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	104	(78 - 115)			SW846 8260B
	102	(78 - 115)	1.9	(0-30)	SW846 8260B
2-Butanone	91	(52 - 131)			SW846 8260B
	103	(52 - 131)	13	(0-30)	SW846 8260B
Bromodichloromethane	104	(84 - 122)			SW846 8260B
	104	(84 - 122)	0.23	(0-30)	SW846 8260B
Bromoform	90	(62 - 133)			SW846 8260B
	92	(62 - 133)	2.5	(0-30)	SW846 8260B
Bromomethane	106	(42 - 136)			SW846 8260B
	103	(42 - 136)	3.3	(0-30)	SW846 8260B
n-Butylbenzene	105	(68 - 135)			SW846 8260B
	103	(68 - 135)	1.6	(0-30)	SW846 8260B
4-Methyl-2-pentanone	87	(67 - 135)			SW846 8260B
	94	(67 - 135)	8.7	(0-30)	SW846 8260B
2-Hexanone	99	(64 - 136)			SW846 8260B
	111	(64 - 136)	11	(0-30)	SW846 8260B
sec-Butylbenzene	100	(74 - 129)			SW846 8260B
	99	(74 - 129)	1.8	(0-30)	SW846 8260B
tert-Butylbenzene	100	(76 - 126)			SW846 8260B
	99	(76 - 126)	1.6	(0-30)	SW846 8260B
Xylenes (total)	97	(80 - 118)			SW846 8260B
	97	(80 - 118)	0.19	(0-30)	SW846 8260B
Carbon tetrachloride	115	(71 - 129)			SW846 8260B
	110	(71 - 129)	4.2	(0-30)	SW846 8260B
Chlorobenzene	94	(78 - 110)			SW846 8260B
	95	(78 - 110)	0.94	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAPD51AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
n-Hexane	114	(86 - 134)			SW846 8260B
	121	(86 - 134)	6.2	(0-30)	SW846 8260B
Dibromochloromethane	87	(72 - 127)			SW846 8260B
	88	(72 - 127)	1.1	(0-30)	SW846 8260B
Methyl tert-butyl ether	100	(49 - 165)			SW846 8260B
	100	(49 - 165)	0.020	(0-30)	SW846 8260B
Cyclohexane	113 a	(66 - 110)			SW846 8260B
	109	(66 - 110)	3.3	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	91	(61 - 132)			SW846 8260B
	88	(61 - 132)	3.2	(0-30)	SW846 8260B
Chloroethane	102	(58 - 117)			SW846 8260B
	99	(58 - 117)	2.9	(0-30)	SW846 8260B
Chloroform	103	(77 - 114)			SW846 8260B
	105	(77 - 114)	1.9	(0-30)	SW846 8260B
Chloromethane	84	(50 - 110)			SW846 8260B
	82	(50 - 110)	1.8	(0-30)	SW846 8260B
Trichlorotrifluoroethane	135	(82 - 138)			SW846 8260B
	130	(82 - 138)	4.3	(0-30)	SW846 8260B
Methyl acetate	89	(57 - 130)			SW846 8260B
	95	(57 - 130)	6.2	(0-30)	SW846 8260B
2-Chlorotoluene	99	(78 - 119)			SW846 8260B
	97	(78 - 119)	2.0	(0-30)	SW846 8260B
Methylcyclohexane	113	(70 - 126)			SW846 8260B
	108	(70 - 126)	3.9	(0-30)	SW846 8260B
4-Chlorotoluene	104	(79 - 118)			SW846 8260B
	101	(79 - 118)	2.6	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	98	(28 - 173)			SW846 8260B
	103	(28 - 173)	4.8	(0-30)	SW846 8260B
1,2-Dibromoethane	100	(83 - 117)			SW846 8260B
	103	(83 - 117)	2.6	(0-30)	SW846 8260B
Dibromomethane	104	(85 - 120)			SW846 8260B
	106	(85 - 120)	1.0	(0-30)	SW846 8260B
1,2-Dichlorobenzene	92	(76 - 110)			SW846 8260B
	91	(76 - 110)	1.4	(0-30)	SW846 8260B
1,3-Dichlorobenzene	96	(78 - 111)			SW846 8260B
	95	(78 - 111)	1.4	(0-30)	SW846 8260B
Iodomethane	137 a	(79 - 130)			SW846 8260B
	133 a	(79 - 130)	2.5	(0-30)	SW846 8260B
1,4-Dichlorobenzene	93	(75 - 110)			SW846 8260B
	92	(75 - 110)	1.6	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAPD51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Isopropyl ether	102	(82 - 119)			SW846 8260B
	102	(82 - 119)	0.24	(0-30)	SW846 8260B
Dichlorodifluoromethane	75	(26 - 113)			SW846 8260B
	71	(26 - 113)	5.1	(0-30)	SW846 8260B
1,1-Dichloroethane	102	(76 - 115)			SW846 8260B
	102	(76 - 115)	0.46	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	135	(82 - 138)			SW846 8260B
	130	(82 - 138)	4.3	(0-30)	SW846 8260B
1,2-Dichloroethane	95	(72 - 120)			SW846 8260B
	99	(72 - 120)	4.6	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	102	(76 - 113)			SW846 8260B
	102	(76 - 113)	0.13	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	106	(78 - 117)			SW846 8260B
	102	(78 - 117)	3.8	(0-30)	SW846 8260B
1,1-Dichloroethene	117	(75 - 135)			SW846 8260B
	113	(75 - 135)	3.0	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(87 - 113)			SW846 8260B
	99	(87 - 113)	0.82	(0-30)	SW846 8260B
1,3-Dichloropropane	90	(82 - 118)			SW846 8260B
	94	(82 - 118)	4.5	(0-30)	SW846 8260B
2,2-Dichloropropane	106	(69 - 135)			SW846 8260B
	107	(69 - 135)	0.73	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	100	(74 - 128)			SW846 8260B
	99	(74 - 128)	1.1	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	102	(73 - 131)			SW846 8260B
	105	(73 - 131)	3.1	(0-30)	SW846 8260B
1,1-Dichloropropene	97	(80 - 120)			SW846 8260B
	100	(80 - 120)	3.5	(0-30)	SW846 8260B
Ethylbenzene	98	(79 - 117)			SW846 8260B
	99	(79 - 117)	0.75	(0-30)	SW846 8260B
Hexachlorobutadiene	105	(54 - 131)			SW846 8260B
	100	(54 - 131)	4.7	(0-30)	SW846 8260B
Isopropylbenzene	97	(76 - 122)			SW846 8260B
	97	(76 - 122)	0.84	(0-30)	SW846 8260B
p-Isopropyltoluene	108	(77 - 131)			SW846 8260B
	104	(77 - 131)	3.9	(0-30)	SW846 8260B
Methylene chloride	106	(75 - 118)			SW846 8260B
	102	(75 - 118)	3.2	(0-30)	SW846 8260B
Naphthalene	93	(65 - 123)			SW846 8260B
	92	(65 - 123)	1.0	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAPD51AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
n-Propylbenzene	106	(81 - 129)			SW846 8260B
	107	(81 - 129)	0.33	(0-30)	SW846 8260B
Styrene	109	(87 - 117)			SW846 8260B
	108	(87 - 117)	1.3	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	97	(81 - 119)			SW846 8260B
	96	(81 - 119)	1.0	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	100	(77 - 123)			SW846 8260B
	101	(77 - 123)	1.9	(0-30)	SW846 8260B
Tetrachloroethene	100	(79 - 114)			SW846 8260B
	101	(79 - 114)	0.76	(0-30)	SW846 8260B
Toluene	87	(75 - 111)			SW846 8260B
	88	(75 - 111)	0.80	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	93	(61 - 121)			SW846 8260B
	91	(61 - 121)	3.2	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	99	(64 - 124)			SW846 8260B
	95	(64 - 124)	3.4	(0-30)	SW846 8260B
1,1,1-Trichloroethane	110	(77 - 126)			SW846 8260B
	106	(77 - 126)	3.7	(0-30)	SW846 8260B
1,1,2-Trichloroethane	92	(83 - 112)			SW846 8260B
	96	(83 - 112)	4.4	(0-30)	SW846 8260B
Trichloroethene	104	(79 - 113)			SW846 8260B
	104	(79 - 113)	0.060	(0-30)	SW846 8260B
Trichlorofluoromethane	116	(57 - 146)			SW846 8260B
	114	(57 - 146)	1.7	(0-30)	SW846 8260B
1,2,3-Trichloropropane	100	(84 - 126)			SW846 8260B
	101	(84 - 126)	0.84	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	103	(80 - 129)			SW846 8260B
	100	(80 - 129)	2.6	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	100	(78 - 128)			SW846 8260B
	98	(78 - 128)	2.3	(0-30)	SW846 8260B
Vinyl chloride	98	(57 - 114)			SW846 8260B
	92	(57 - 114)	6.0	(0-30)	SW846 8260B
m-Xylene & p-Xylene	98	(80 - 117)			SW846 8260B
	97	(80 - 117)	0.24	(0-30)	SW846 8260B
o-Xylene	97	(80 - 120)			SW846 8260B
	97	(80 - 120)	0.090	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAPD51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	112	(37 - 132)
	118	(37 - 132)
Toluene-d8	97	(67 - 125)
	100	(67 - 125)
4-Bromofluorobenzene	102	(52 - 136)
	105	(52 - 136)
1,2-Dichloroethane-d4	100	(58 - 123)
	103	(58 - 123)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAPD51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD
 Prep Date.....: 11/29/10 Analysis Date...: 11/29/10
 Prep Batch #...: 0335244
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	50	48	ug/kg	96		SW846 8260B
	50	48	ug/kg	96	0.29	SW846 8260B
Acetone	100	110	ug/kg	109		SW846 8260B
	100	110	ug/kg	112	3.2	SW846 8260B
Bromobenzene	50	51	ug/kg	102		SW846 8260B
	50	51	ug/kg	102	0.070	SW846 8260B
Carbon disulfide	50	66	ug/kg	133		SW846 8260B
	50	58	ug/kg	116	13	SW846 8260B
Bromochloromethane	50	52	ug/kg	105		SW846 8260B
	50	54	ug/kg	107	2.5	SW846 8260B
1,2-Dichloroethene (total)	100	100	ug/kg	104		SW846 8260B
	100	100	ug/kg	102	1.9	SW846 8260B
2-Butanone	100	91	ug/kg	91		SW846 8260B
	100	100	ug/kg	103	13	SW846 8260B
Bromodichloromethane	50	52	ug/kg	104		SW846 8260B
	50	52	ug/kg	104	0.23	SW846 8260B
Bromoform	50	45	ug/kg	90		SW846 8260B
	50	46	ug/kg	92	2.5	SW846 8260B
Bromomethane	50	53	ug/kg	106		SW846 8260B
	50	51	ug/kg	103	3.3	SW846 8260B
n-Butylbenzene	50	52	ug/kg	105		SW846 8260B
	50	51	ug/kg	103	1.6	SW846 8260B
4-Methyl-2-pentanone	100	87	ug/kg	87		SW846 8260B
	100	94	ug/kg	94	8.7	SW846 8260B
2-Hexanone	100	99	ug/kg	99		SW846 8260B
	100	110	ug/kg	111	11	SW846 8260B
sec-Butylbenzene	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	99	1.8	SW846 8260B
tert-Butylbenzene	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	99	1.6	SW846 8260B
Xylenes (total)	150	150	ug/kg	97		SW846 8260B
	150	150	ug/kg	97	0.19	SW846 8260B
Carbon tetrachloride	50	57	ug/kg	115		SW846 8260B
	50	55	ug/kg	110	4.2	SW846 8260B
Chlorobenzene	50	47	ug/kg	94		SW846 8260B
	50	47	ug/kg	95	0.94	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 **Work Order #...**: MAPD51AC-LCS **Matrix.....**: SOLID
LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
n-Hexane	50	57	ug/kg	114		SW846 8260B
	50	61	ug/kg	121	6.2	SW846 8260B
Dibromochloromethane	50	43	ug/kg	87		SW846 8260B
	50	44	ug/kg	88	1.1	SW846 8260B
Methyl tert-butyl ether	50	50	ug/kg	100		SW846 8260B
	50	50	ug/kg	100	0.020	SW846 8260B
Cyclohexane	50	57 a	ug/kg	113		SW846 8260B
	50	55	ug/kg	109	3.3	SW846 8260B
1,2-Dibromo-3-chloro- propane	50	46	ug/kg	91		SW846 8260B
	50	44	ug/kg	88	3.2	SW846 8260B
Chloroethane	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	99	2.9	SW846 8260B
Chloroform	50	51	ug/kg	103		SW846 8260B
	50	52	ug/kg	105	1.9	SW846 8260B
Chloromethane	50	42	ug/kg	84		SW846 8260B
	50	41	ug/kg	82	1.8	SW846 8260B
Trichlorotrifluoroethane	50	68	ug/kg	135		SW846 8260B
	50	65	ug/kg	130	4.3	SW846 8260B
Methyl acetate	50	45	ug/kg	89		SW846 8260B
	50	47	ug/kg	95	6.2	SW846 8260B
2-Chlorotoluene	50	50	ug/kg	99		SW846 8260B
	50	49	ug/kg	97	2.0	SW846 8260B
Methylcyclohexane	50	56	ug/kg	113		SW846 8260B
	50	54	ug/kg	108	3.9	SW846 8260B
4-Chlorotoluene	50	52	ug/kg	104		SW846 8260B
	50	51	ug/kg	101	2.6	SW846 8260B
2-Chloroethyl vinyl ether	50	49	ug/kg	98		SW846 8260B
	50	52	ug/kg	103	4.8	SW846 8260B
1,2-Dibromoethane	50	50	ug/kg	100		SW846 8260B
	50	51	ug/kg	103	2.6	SW846 8260B
Dibromomethane	50	52	ug/kg	104		SW846 8260B
	50	53	ug/kg	106	1.0	SW846 8260B
1,2-Dichlorobenzene	50	46	ug/kg	92		SW846 8260B
	50	45	ug/kg	91	1.4	SW846 8260B
1,3-Dichlorobenzene	50	48	ug/kg	96		SW846 8260B
	50	47	ug/kg	95	1.4	SW846 8260B
Iodomethane	50	68 a	ug/kg	137		SW846 8260B
	50	67 a	ug/kg	133	2.5	SW846 8260B
1,4-Dichlorobenzene	50	47	ug/kg	93		SW846 8260B
	50	46	ug/kg	92	1.6	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 **Work Order #...**: MAPD51AC-LCS **Matrix.....**: SOLID
LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Isopropyl ether	50	51	ug/kg	102		SW846 8260B
	50	51	ug/kg	102	0.24	SW846 8260B
Dichlorodifluoromethane	50	37	ug/kg	75		SW846 8260B
	50	36	ug/kg	71	5.1	SW846 8260B
1,1-Dichloroethane	50	51	ug/kg	102		SW846 8260B
	50	51	ug/kg	102	0.46	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	50	68	ug/kg	135		SW846 8260B
	50	65	ug/kg	130	4.3	SW846 8260B
1,2-Dichloroethane	50	47	ug/kg	95		SW846 8260B
	50	50	ug/kg	99	4.6	SW846 8260B
cis-1,2-Dichloroethene	50	51	ug/kg	102		SW846 8260B
	50	51	ug/kg	102	0.13	SW846 8260B
trans-1,2-Dichloroethene	50	53	ug/kg	106		SW846 8260B
	50	51	ug/kg	102	3.8	SW846 8260B
1,1-Dichloroethene	50	58	ug/kg	117		SW846 8260B
	50	57	ug/kg	113	3.0	SW846 8260B
1,2-Dichloropropane	50	49	ug/kg	98		SW846 8260B
	50	50	ug/kg	99	0.82	SW846 8260B
1,3-Dichloropropane	50	45	ug/kg	90		SW846 8260B
	50	47	ug/kg	94	4.5	SW846 8260B
2,2-Dichloropropane	50	53	ug/kg	106		SW846 8260B
	50	53	ug/kg	107	0.73	SW846 8260B
cis-1,3-Dichloropropene	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	99	1.1	SW846 8260B
trans-1,3-Dichloropropene	50	51	ug/kg	102		SW846 8260B
	50	53	ug/kg	105	3.1	SW846 8260B
1,1-Dichloropropene	50	48	ug/kg	97		SW846 8260B
	50	50	ug/kg	100	3.5	SW846 8260B
Ethylbenzene	50	49	ug/kg	98		SW846 8260B
	50	50	ug/kg	99	0.75	SW846 8260B
Hexachlorobutadiene	50	53	ug/kg	105		SW846 8260B
	50	50	ug/kg	100	4.7	SW846 8260B
Isopropylbenzene	50	49	ug/kg	97		SW846 8260B
	50	48	ug/kg	97	0.84	SW846 8260B
p-Isopropyltoluene	50	54	ug/kg	108		SW846 8260B
	50	52	ug/kg	104	3.9	SW846 8260B
Methylene chloride	50	53	ug/kg	106		SW846 8260B
	50	51	ug/kg	102	3.2	SW846 8260B
Naphthalene	50	46	ug/kg	93		SW846 8260B
	50	46	ug/kg	92	1.0	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAPD51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
n-Propylbenzene	50	53	ug/kg	106		SW846 8260B
	50	53	ug/kg	107	0.33	SW846 8260B
Styrene	50	54	ug/kg	109		SW846 8260B
	50	54	ug/kg	108	1.3	SW846 8260B
1,1,1,2-Tetrachloroethane	50	49	ug/kg	97		SW846 8260B
	50	48	ug/kg	96	1.0	SW846 8260B
1,1,2,2-Tetrachloroethane	50	50	ug/kg	100		SW846 8260B
	50	51	ug/kg	101	1.9	SW846 8260B
Tetrachloroethene	50	50	ug/kg	100		SW846 8260B
	50	51	ug/kg	101	0.76	SW846 8260B
Toluene	50	44	ug/kg	87		SW846 8260B
	50	44	ug/kg	88	0.80	SW846 8260B
1,2,3-Trichlorobenzene	50	47	ug/kg	93		SW846 8260B
	50	45	ug/kg	91	3.2	SW846 8260B
1,2,4-Trichloro- benzene	50	49	ug/kg	99		SW846 8260B
	50	48	ug/kg	95	3.4	SW846 8260B
1,1,1-Trichloroethane	50	55	ug/kg	110		SW846 8260B
	50	53	ug/kg	106	3.7	SW846 8260B
1,1,2-Trichloroethane	50	46	ug/kg	92		SW846 8260B
	50	48	ug/kg	96	4.4	SW846 8260B
Trichloroethene	50	52	ug/kg	104		SW846 8260B
	50	52	ug/kg	104	0.060	SW846 8260B
Trichlorofluoromethane	50	58	ug/kg	116		SW846 8260B
	50	57	ug/kg	114	1.7	SW846 8260B
1,2,3-Trichloropropane	50	50	ug/kg	100		SW846 8260B
	50	50	ug/kg	101	0.84	SW846 8260B
1,2,4-Trimethylbenzene	50	52	ug/kg	103		SW846 8260B
	50	50	ug/kg	100	2.6	SW846 8260B
1,3,5-Trimethylbenzene	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	98	2.3	SW846 8260B
Vinyl chloride	50	49	ug/kg	98		SW846 8260B
	50	46	ug/kg	92	6.0	SW846 8260B
m-Xylene & p-Xylene	100	98	ug/kg	98		SW846 8260B
	100	97	ug/kg	97	0.24	SW846 8260B
o-Xylene	50	48	ug/kg	97		SW846 8260B
	50	48	ug/kg	97	0.090	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAPD51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A0L010000-244 MAPD51AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	112	(37 - 132)
	118	(37 - 132)
Toluene-d8	97	(67 - 125)
	100	(67 - 125)
4-Bromofluorobenzene	102	(52 - 136)
	105	(52 - 136)
1,2-Dichloroethane-d4	100	(58 - 123)
	103	(58 - 123)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAVGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0337316
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	95	(83 - 112)			SW846 8260B
	93	(83 - 112)	2.0	(0-30)	SW846 8260B
Acetone	71	(43 - 136)			SW846 8260B
	68	(43 - 136)	4.5	(0-30)	SW846 8260B
Bromobenzene	88	(76 - 115)			SW846 8260B
	84	(76 - 115)	4.0	(0-30)	SW846 8260B
Carbon disulfide	105	(62 - 142)			SW846 8260B
	107	(62 - 142)	2.4	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	91	(82 - 114)			SW846 8260B
	92	(82 - 114)	0.76	(0-30)	SW846 8260B
Bromochloromethane	89	(77 - 120)			SW846 8260B
	89	(77 - 120)	0.090	(0-30)	SW846 8260B
2-Butanone	75	(60 - 126)			SW846 8260B
	71	(60 - 126)	4.9	(0-30)	SW846 8260B
Bromodichloromethane	89	(72 - 121)			SW846 8260B
	87	(72 - 121)	1.4	(0-30)	SW846 8260B
Bromoform	78	(40 - 131)			SW846 8260B
	80	(40 - 131)	2.4	(0-30)	SW846 8260B
Bromomethane	72	(11 - 185)			SW846 8260B
	63	(11 - 185)	14	(0-30)	SW846 8260B
n-Butylbenzene	103	(66 - 125)			SW846 8260B
	108	(66 - 125)	4.8	(0-30)	SW846 8260B
4-Methyl-2-pentanone	76	(63 - 128)			SW846 8260B
	70	(63 - 128)	7.5	(0-30)	SW846 8260B
2-Hexanone	72	(55 - 133)			SW846 8260B
	67	(55 - 133)	7.7	(0-30)	SW846 8260B
sec-Butylbenzene	97	(70 - 117)			SW846 8260B
	97	(70 - 117)	0.0	(0-30)	SW846 8260B
tert-Butylbenzene	93	(71 - 115)			SW846 8260B
	91	(71 - 115)	2.2	(0-30)	SW846 8260B
Xylenes (total)	97	(83 - 112)			SW846 8260B
	97	(83 - 112)	0.17	(0-30)	SW846 8260B
Carbon tetrachloride	93	(66 - 128)			SW846 8260B
	97	(66 - 128)	4.2	(0-30)	SW846 8260B
Chlorobenzene	95	(85 - 110)			SW846 8260B
	94	(85 - 110)	1.1	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAVGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromochloromethane	86	(64 - 119)			SW846 8260B
	86	(64 - 119)	0.46	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	108	(74 - 151)			SW846 8260B
	116	(74 - 151)	7.0	(0-30)	SW846 8260B
Methyl acetate	80	(58 - 131)			SW846 8260B
	75	(58 - 131)	6.2	(0-30)	SW846 8260B
Chloroethane	81	(25 - 153)			SW846 8260B
	77	(25 - 153)	4.6	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	78	(52 - 144)			SW846 8260B
	78	(52 - 144)	0.75	(0-30)	SW846 8260B
Cyclohexane	92	(54 - 121)			SW846 8260B
	95	(54 - 121)	2.6	(0-30)	SW846 8260B
Methylcyclohexane	90	(56 - 127)			SW846 8260B
	93	(56 - 127)	3.3	(0-30)	SW846 8260B
Chloroform	91	(79 - 117)			SW846 8260B
	90	(79 - 117)	1.2	(0-30)	SW846 8260B
Chloromethane	97	(44 - 126)			SW846 8260B
	98	(44 - 126)	0.57	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	96	(42 - 136)			SW846 8260B
	90	(42 - 136)	6.2	(0-30)	SW846 8260B
2-Chlorotoluene	91	(76 - 116)			SW846 8260B
	88	(76 - 116)	3.1	(0-30)	SW846 8260B
Methyl tert-butyl ether	78	(52 - 144)			SW846 8260B
	78	(52 - 144)	0.75	(0-30)	SW846 8260B
n-Hexane	94	(66 - 137)			SW846 8260B
	99	(66 - 137)	4.6	(0-30)	SW846 8260B
4-Chlorotoluene	91	(77 - 115)			SW846 8260B
	89	(77 - 115)	2.4	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	78	(52 - 131)			SW846 8260B
	73	(52 - 131)	5.4	(0-30)	SW846 8260B
1,2-Dibromoethane	90	(79 - 113)			SW846 8260B
	89	(79 - 113)	1.7	(0-30)	SW846 8260B
Vinyl acetate	97	(46 - 161)			SW846 8260B
	98	(46 - 161)	0.45	(0-30)	SW846 8260B
Dibromomethane	94	(81 - 120)			SW846 8260B
	92	(81 - 120)	1.9	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAVGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichlorobenzene	100	(81 - 110)			SW846 8260B
	99	(81 - 110)	1.4	(0-30)	SW846 8260B
1,3-Dichlorobenzene	97	(80 - 110)			SW846 8260B
	96	(80 - 110)	1.4	(0-30)	SW846 8260B
1,4-Dichlorobenzene	94	(82 - 110)			SW846 8260B
	94	(82 - 110)	0.050	(0-30)	SW846 8260B
Iodomethane	105	(72 - 141)			SW846 8260B
	105	(72 - 141)	0.21	(0-30)	SW846 8260B
Isopropyl ether	88	(77 - 118)			SW846 8260B
	87	(77 - 118)	1.1	(0-30)	SW846 8260B
Dichlorodifluoromethane	83	(19 - 129)			SW846 8260B
	88	(19 - 129)	5.6	(0-30)	SW846 8260B
1,1-Dichloroethane	91	(82 - 115)			SW846 8260B
	91	(82 - 115)	0.53	(0-30)	SW846 8260B
1,2-Dichloroethane	85	(71 - 127)			SW846 8260B
	84	(71 - 127)	1.6	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	91	(80 - 113)			SW846 8260B
	90	(80 - 113)	0.47	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	91	(83 - 117)			SW846 8260B
	93	(83 - 117)	2.0	(0-30)	SW846 8260B
1,1-Dichloroethene	94	(78 - 131)			SW846 8260B
	97	(78 - 131)	2.3	(0-30)	SW846 8260B
1,2-Dichloropropane	96	(81 - 115)			SW846 8260B
	94	(81 - 115)	2.6	(0-30)	SW846 8260B
1,3-Dichloropropane	96	(79 - 116)			SW846 8260B
	91	(79 - 116)	4.6	(0-30)	SW846 8260B
2,2-Dichloropropane	79	(50 - 129)			SW846 8260B
	82	(50 - 129)	3.2	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	86	(61 - 115)			SW846 8260B
	85	(61 - 115)	0.78	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	90	(58 - 117)			SW846 8260B
	88	(58 - 117)	2.0	(0-30)	SW846 8260B
1,1-Dichloropropene	92	(83 - 114)			SW846 8260B
	91	(83 - 114)	0.85	(0-30)	SW846 8260B
Ethylbenzene	94	(83 - 112)			SW846 8260B
	94	(83 - 112)	0.26	(0-30)	SW846 8260B
Hexachlorobutadiene	96	(36 - 134)			SW846 8260B
	119	(36 - 134)	21	(0-30)	SW846 8260B
Isopropylbenzene	99	(75 - 114)			SW846 8260B
	100	(75 - 114)	1.5	(0-30)	SW846 8260B
p-Isopropyltoluene	103	(74 - 120)			SW846 8260B
	104	(74 - 120)	0.79	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAVGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methylene chloride	95	(66 - 131)			SW846 8260B
	93	(66 - 131)	1.6	(0-30)	SW846 8260B
Naphthalene	100	(32 - 141)			SW846 8260B
	100	(32 - 141)	0.67	(0-30)	SW846 8260B
n-Propylbenzene	92	(74 - 121)			SW846 8260B
	91	(74 - 121)	1.8	(0-30)	SW846 8260B
Styrene	100	(79 - 114)			SW846 8260B
	99	(79 - 114)	1.1	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	94	(72 - 116)			SW846 8260B
	94	(72 - 116)	0.62	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	91	(68 - 118)			SW846 8260B
	87	(68 - 118)	4.6	(0-30)	SW846 8260B
Tetrachloroethene	94	(79 - 114)			SW846 8260B
	94	(79 - 114)	0.11	(0-30)	SW846 8260B
Toluene	96	(84 - 111)			SW846 8260B
	95	(84 - 111)	1.3	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	105	(54 - 126)			SW846 8260B
	111	(54 - 126)	5.6	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	106	(48 - 135)			SW846 8260B
	111	(48 - 135)	5.2	(0-30)	SW846 8260B
1,1,1-Trichloroethane	88	(74 - 118)			SW846 8260B
	87	(74 - 118)	0.39	(0-30)	SW846 8260B
1,1,2-Trichloroethane	98	(80 - 112)			SW846 8260B
	94	(80 - 112)	3.6	(0-30)	SW846 8260B
Trichloroethene	92	(76 - 117)			SW846 8260B
	91	(76 - 117)	1.7	(0-20)	SW846 8260B
Trichlorofluoromethane	90	(49 - 157)			SW846 8260B
	92	(49 - 157)	2.2	(0-30)	SW846 8260B
1,2,3-Trichloropropane	84	(73 - 129)			SW846 8260B
	80	(73 - 129)	5.6	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	102	(76 - 120)			SW846 8260B
	101	(76 - 120)	0.82	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	96	(72 - 118)			SW846 8260B
	95	(72 - 118)	0.92	(0-30)	SW846 8260B
Vinyl chloride	93	(53 - 127)			SW846 8260B
	97	(53 - 127)	3.9	(0-30)	SW846 8260B
m-Xylene & p-Xylene	96	(83 - 113)			SW846 8260B
	96	(83 - 113)	0.85	(0-30)	SW846 8260B
o-Xylene	97	(83 - 113)			SW846 8260B
	99	(83 - 113)	2.2	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAVGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	86	(75 - 121)
	86	(75 - 121)
1,2-Dichloroethane-d4	77	(63 - 129)
	76	(63 - 129)
Toluene-d8	94	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	104	(66 - 117)
	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAVGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0337316
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	10	9.5	ug/L	95		SW846 8260B
	10	9.3	ug/L	93	2.0	SW846 8260B
Acetone	20	14	ug/L	71		SW846 8260B
	20	14	ug/L	68	4.5	SW846 8260B
Bromobenzene	10	8.8	ug/L	88		SW846 8260B
	10	8.4	ug/L	84	4.0	SW846 8260B
Carbon disulfide	10	10	ug/L	105		SW846 8260B
	10	11	ug/L	107	2.4	SW846 8260B
1,2-Dichloroethene (total)	20	18	ug/L	91		SW846 8260B
	20	18	ug/L	92	0.76	SW846 8260B
Bromochloromethane	10	8.9	ug/L	89		SW846 8260B
	10	8.9	ug/L	89	0.090	SW846 8260B
2-Butanone	20	15	ug/L	75		SW846 8260B
	20	14	ug/L	71	4.9	SW846 8260B
Bromodichloromethane	10	8.9	ug/L	89		SW846 8260B
	10	8.7	ug/L	87	1.4	SW846 8260B
Bromoform	10	7.8	ug/L	78		SW846 8260B
	10	8.0	ug/L	80	2.4	SW846 8260B
Bromomethane	10	7.2	ug/L	72		SW846 8260B
	10	6.3	ug/L	63	14	SW846 8260B
n-Butylbenzene	10	10	ug/L	103		SW846 8260B
	10	11	ug/L	108	4.8	SW846 8260B
4-Methyl-2-pentanone	20	15	ug/L	76		SW846 8260B
	20	14	ug/L	70	7.5	SW846 8260B
2-Hexanone	20	14	ug/L	72		SW846 8260B
	20	13	ug/L	67	7.7	SW846 8260B
sec-Butylbenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.7	ug/L	97	0.0	SW846 8260B
tert-Butylbenzene	10	9.3	ug/L	93		SW846 8260B
	10	9.1	ug/L	91	2.2	SW846 8260B
Xylenes (total)	30	29	ug/L	97		SW846 8260B
	30	29	ug/L	97	0.17	SW846 8260B
Carbon tetrachloride	10	9.3	ug/L	93		SW846 8260B
	10	9.7	ug/L	97	4.2	SW846 8260B
Chlorobenzene	10	9.5	ug/L	95		SW846 8260B
	10	9.4	ug/L	94	1.1	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 **Work Order #...**: MAVGK1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Dibromochloromethane	10	8.6	ug/L	86		SW846 8260B
	10	8.6	ug/L	86	0.46	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	11	ug/L	108		SW846 8260B
	10	12	ug/L	116	7.0	SW846 8260B
Methyl acetate	10	8.0	ug/L	80		SW846 8260B
	10	7.5	ug/L	75	6.2	SW846 8260B
Chloroethane	10	8.1	ug/L	81		SW846 8260B
	10	7.7	ug/L	77	4.6	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	7.8	ug/L	78		SW846 8260B
	10	7.8	ug/L	78	0.75	SW846 8260B
Cyclohexane	10	9.2	ug/L	92		SW846 8260B
	10	9.5	ug/L	95	2.6	SW846 8260B
Methylcyclohexane	10	9.0	ug/L	90		SW846 8260B
	10	9.3	ug/L	93	3.3	SW846 8260B
Chloroform	10	9.1	ug/L	91		SW846 8260B
	10	9.0	ug/L	90	1.2	SW846 8260B
Chloromethane	10	9.7	ug/L	97		SW846 8260B
	10	9.8	ug/L	98	0.57	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.6	ug/L	96		SW846 8260B
	10	9.0	ug/L	90	6.2	SW846 8260B
2-Chlorotoluene	10	9.1	ug/L	91		SW846 8260B
	10	8.8	ug/L	88	3.1	SW846 8260B
Methyl tert-butyl ether	10	7.8	ug/L	78		SW846 8260B
	10	7.8	ug/L	78	0.75	SW846 8260B
n-Hexane	10	9.4	ug/L	94		SW846 8260B
	10	9.9	ug/L	99	4.6	SW846 8260B
4-Chlorotoluene	10	9.1	ug/L	91		SW846 8260B
	10	8.9	ug/L	89	2.4	SW846 8260B
2-Chloroethyl vinyl ether	10	7.8	ug/L	78		SW846 8260B
	10	7.3	ug/L	73	5.4	SW846 8260B
1,2-Dibromoethane	10	9.0	ug/L	90		SW846 8260B
	10	8.9	ug/L	89	1.7	SW846 8260B
Vinyl acetate	10	9.7	ug/L	97		SW846 8260B
	10	9.8	ug/L	98	0.45	SW846 8260B
Dibromomethane	10	9.4	ug/L	94		SW846 8260B
	10	9.2	ug/L	92	1.9	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 **Work Order #...**: MAVGK1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
1,2-Dichlorobenzene	10	10	ug/L	100		SW846 8260B
	10	9.9	ug/L	99	1.4	SW846 8260B
1,3-Dichlorobenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.6	ug/L	96	1.4	SW846 8260B
1,4-Dichlorobenzene	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.050	SW846 8260B
Iodomethane	10	10	ug/L	105		SW846 8260B
	10	11	ug/L	105	0.21	SW846 8260B
Isopropyl ether	10	8.8	ug/L	88		SW846 8260B
	10	8.7	ug/L	87	1.1	SW846 8260B
Dichlorodifluoromethane	10	8.3	ug/L	83		SW846 8260B
	10	8.8	ug/L	88	5.6	SW846 8260B
1,1-Dichloroethane	10	9.1	ug/L	91		SW846 8260B
	10	9.1	ug/L	91	0.53	SW846 8260B
1,2-Dichloroethane	10	8.5	ug/L	85		SW846 8260B
	10	8.4	ug/L	84	1.6	SW846 8260B
cis-1,2-Dichloroethene	10	9.1	ug/L	91		SW846 8260B
	10	9.0	ug/L	90	0.47	SW846 8260B
trans-1,2-Dichloroethene	10	9.1	ug/L	91		SW846 8260B
	10	9.3	ug/L	93	2.0	SW846 8260B
1,1-Dichloroethene	10	9.4	ug/L	94		SW846 8260B
	10	9.7	ug/L	97	2.3	SW846 8260B
1,2-Dichloropropane	10	9.6	ug/L	96		SW846 8260B
	10	9.4	ug/L	94	2.6	SW846 8260B
1,3-Dichloropropane	10	9.6	ug/L	96		SW846 8260B
	10	9.1	ug/L	91	4.6	SW846 8260B
2,2-Dichloropropane	10	7.9	ug/L	79		SW846 8260B
	10	8.2	ug/L	82	3.2	SW846 8260B
cis-1,3-Dichloropropene	10	8.6	ug/L	86		SW846 8260B
	10	8.5	ug/L	85	0.78	SW846 8260B
trans-1,3-Dichloropropene	10	9.0	ug/L	90		SW846 8260B
	10	8.8	ug/L	88	2.0	SW846 8260B
1,1-Dichloropropene	10	9.2	ug/L	92		SW846 8260B
	10	9.1	ug/L	91	0.85	SW846 8260B
Ethylbenzene	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.26	SW846 8260B
Hexachlorobutadiene	10	9.6	ug/L	96		SW846 8260B
	10	12	ug/L	119	21	SW846 8260B
Isopropylbenzene	10	9.9	ug/L	99		SW846 8260B
	10	10	ug/L	100	1.5	SW846 8260B
p-Isopropyltoluene	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	104	0.79	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 **Work Order #...**: MAVGK1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Methylene chloride	10	9.5	ug/L	95		SW846 8260B
	10	9.3	ug/L	93	1.6	SW846 8260B
Naphthalene	10	10	ug/L	100		SW846 8260B
	10	10	ug/L	100	0.67	SW846 8260B
n-Propylbenzene	10	9.2	ug/L	92		SW846 8260B
	10	9.1	ug/L	91	1.8	SW846 8260B
Styrene	10	10	ug/L	100		SW846 8260B
	10	9.9	ug/L	99	1.1	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.62	SW846 8260B
1,1,2,2-Tetrachloroethane	10	9.1	ug/L	91		SW846 8260B
	10	8.7	ug/L	87	4.6	SW846 8260B
Tetrachloroethene	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.11	SW846 8260B
Toluene	10	9.6	ug/L	96		SW846 8260B
	10	9.5	ug/L	95	1.3	SW846 8260B
1,2,3-Trichlorobenzene	10	10	ug/L	105		SW846 8260B
	10	11	ug/L	111	5.6	SW846 8260B
1,2,4-Trichloro- benzene	10	11	ug/L	106		SW846 8260B
	10	11	ug/L	111	5.2	SW846 8260B
1,1,1-Trichloroethane	10	8.8	ug/L	88		SW846 8260B
	10	8.7	ug/L	87	0.39	SW846 8260B
1,1,2-Trichloroethane	10	9.8	ug/L	98		SW846 8260B
	10	9.4	ug/L	94	3.6	SW846 8260B
Trichloroethene	10	9.2	ug/L	92		SW846 8260B
	10	9.1	ug/L	91	1.7	SW846 8260B
Trichlorofluoromethane	10	9.0	ug/L	90		SW846 8260B
	10	9.2	ug/L	92	2.2	SW846 8260B
1,2,3-Trichloropropane	10	8.4	ug/L	84		SW846 8260B
	10	8.0	ug/L	80	5.6	SW846 8260B
1,2,4-Trimethylbenzene	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	101	0.82	SW846 8260B
1,3,5-Trimethylbenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.5	ug/L	95	0.92	SW846 8260B
Vinyl chloride	10	9.3	ug/L	93		SW846 8260B
	10	9.7	ug/L	97	3.9	SW846 8260B
m-Xylene & p-Xylene	20	19	ug/L	96		SW846 8260B
	20	19	ug/L	96	0.85	SW846 8260B
o-Xylene	10	9.7	ug/L	97		SW846 8260B
	10	9.9	ug/L	99	2.2	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAVGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L030000-316 MAVGK1AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	86	(75 - 121)
	86	(75 - 121)
1,2-Dichloroethane-d4	77	(63 - 129)
	76	(63 - 129)
Toluene-d8	94	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	104	(66 - 117)
	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
 MS Lot-Sample #: A0K200424-001 MAC471AE-MSD
 Date Sampled...: 11/19/10 08:45 Date Received...: 11/20/10
 Prep Date.....: 11/29/10 Analysis Date...: 11/29/10
 Prep Batch #...: 0335244
 Dilution Factor: 1 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	85	(53 - 118)			SW846 8260B
	83	(53 - 118)	2.1	(0-30)	SW846 8260B
Bromobenzene	74	(24 - 144)			SW846 8260B
	80	(24 - 144)	7.4	(0-30)	SW846 8260B
Acetone	67	(24 - 140)			SW846 8260B
	57	(24 - 140)	14	(0-30)	SW846 8260B
Carbon disulfide	98	(20 - 151)			SW846 8260B
	90	(20 - 151)	8.2	(0-30)	SW846 8260B
Bromochloromethane	94	(53 - 116)			SW846 8260B
	86	(53 - 116)	9.1	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	92	(51 - 120)			SW846 8260B
	84	(51 - 120)	8.4	(0-30)	SW846 8260B
Bromodichloromethane	86	(35 - 132)			SW846 8260B
	87	(35 - 132)	2.0	(0-30)	SW846 8260B
2-Butanone	79	(30 - 143)			SW846 8260B
	75	(30 - 143)	4.7	(0-30)	SW846 8260B
Bromoform	67	(18 - 129)			SW846 8260B
	63	(18 - 129)	5.8	(0-30)	SW846 8260B
Bromomethane	102	(33 - 130)			SW846 8260B
	90	(33 - 130)	12	(0-30)	SW846 8260B
n-Butylbenzene	66	(10 - 148)			SW846 8260B
	68	(10 - 148)	3.5	(0-30)	SW846 8260B
4-Methyl-2-pentanone	81	(43 - 147)			SW846 8260B
	74	(43 - 147)	9.8	(0-30)	SW846 8260B
sec-Butylbenzene	70	(10 - 172)			SW846 8260B
	70	(10 - 172)	0.57	(0-30)	SW846 8260B
2-Hexanone	77	(37 - 147)			SW846 8260B
	83	(37 - 147)	6.9	(0-30)	SW846 8260B
tert-Butylbenzene	74	(10 - 163)			SW846 8260B
	73	(10 - 163)	1.2	(0-30)	SW846 8260B
Carbon tetrachloride	97	(32 - 137)			SW846 8260B
	91	(32 - 137)	6.1	(0-30)	SW846 8260B
Xylenes (total)	78	(30 - 131)			SW846 8260B
	75	(30 - 131)	3.4	(0-30)	SW846 8260B
Chlorobenzene	76	(37 - 116)			SW846 8260B
	76	(37 - 116)	0.16	(0-30)	SW846 8260B
n-Hexane	108	(26 - 151)			SW846 8260B
	109	(26 - 151)	0.83	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
MS Lot-Sample #: A0K200424-001 MAC471AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromochloromethane	71	(29 - 135)			SW846 8260B
	69	(29 - 135)	2.3	(0-30)	SW846 8260B
Methyl tert-butyl ether	87	(51 - 157)			SW846 8260B
	76	(51 - 157)	14	(0-30)	SW846 8260B
Cyclohexane	100	(28 - 118)			SW846 8260B
	92	(28 - 118)	8.2	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	68	(10 - 153)			SW846 8260B
	63	(10 - 153)	7.2	(0-30)	SW846 8260B
Chloroethane	95	(45 - 118)			SW846 8260B
	88	(45 - 118)	6.7	(0-30)	SW846 8260B
Chloroform	94	(53 - 119)			SW846 8260B
	87	(53 - 119)	7.4	(0-30)	SW846 8260B
Chloromethane	77	(34 - 117)			SW846 8260B
	68	(34 - 117)	13	(0-30)	SW846 8260B
Trichlorotrifluoroethane	123	(50 - 147)			SW846 8260B
	115	(50 - 147)	6.3	(0-30)	SW846 8260B
Methyl acetate	77	(33 - 165)			SW846 8260B
	69	(33 - 165)	11	(0-30)	SW846 8260B
Methylcyclohexane	96	(20 - 132)			SW846 8260B
	89	(20 - 132)	7.4	(0-30)	SW846 8260B
2-Chlorotoluene	72	(11 - 162)			SW846 8260B
	74	(11 - 162)	3.2	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 162)			SW846 8260B
	0.0 a	(10 - 162)	0.0	(0-30)	SW846 8260B
4-Chlorotoluene	71	(15 - 149)			SW846 8260B
	75	(15 - 149)	5.8	(0-30)	SW846 8260B
1,2-Dibromoethane	84	(45 - 127)			SW846 8260B
	86	(45 - 127)	2.2	(0-30)	SW846 8260B
Cyclohexanone	83	(44 - 199)			SW846 8260B
	79	(44 - 199)	4.7	(0-30)	SW846 8260B
Dibromomethane	93	(52 - 123)			SW846 8260B
	88	(52 - 123)	4.9	(0-30)	SW846 8260B
1,2-Dichlorobenzene	71	(17 - 122)			SW846 8260B
	67	(17 - 122)	4.5	(0-30)	SW846 8260B
1,3-Dichlorobenzene	68	(16 - 126)			SW846 8260B
	69	(16 - 126)	0.88	(0-30)	SW846 8260B
Iodomethane	122	(51 - 132)			SW846 8260B
	111	(51 - 132)	8.8	(0-30)	SW846 8260B
1,4-Dichlorobenzene	66	(15 - 121)			SW846 8260B
	66	(15 - 121)	0.50	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
MS Lot-Sample #: A0K200424-001 MAC471AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Isopropyl ether	91	(62 - 128)			SW846 8260B
	85	(62 - 128)	7.0	(0-30)	SW846 8260B
Dichlorodifluoromethane	71	(17 - 115)			SW846 8260B
	62	(17 - 115)	13	(0-30)	SW846 8260B
1,1-Dichloroethane	93	(54 - 122)			SW846 8260B
	87	(54 - 122)	6.8	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	123	(50 - 147)			SW846 8260B
	115	(50 - 147)	6.3	(0-30)	SW846 8260B
1,2-Dichloroethane	87	(49 - 123)			SW846 8260B
	86	(49 - 123)	1.4	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	91	(50 - 119)			SW846 8260B
	85	(50 - 119)	6.9	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	93	(50 - 123)			SW846 8260B
	84	(50 - 123)	9.9	(0-30)	SW846 8260B
1,1-Dichloroethene	105	(49 - 157)			SW846 8260B
	96	(49 - 157)	8.4	(0-30)	SW846 8260B
1,2-Dichloropropane	87	(61 - 117)			SW846 8260B
	88	(61 - 117)	1.4	(0-30)	SW846 8260B
1,3-Dichloropropane	80	(54 - 128)			SW846 8260B
	82	(54 - 128)	2.9	(0-30)	SW846 8260B
2,2-Dichloropropane	94	(49 - 132)			SW846 8260B
	83	(49 - 132)	12	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	74	(27 - 133)			SW846 8260B
	83	(27 - 133)	11	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	78	(28 - 137)			SW846 8260B
	87	(28 - 137)	11	(0-30)	SW846 8260B
1,1-Dichloropropene	88	(50 - 122)			SW846 8260B
	85	(50 - 122)	2.8	(0-30)	SW846 8260B
Ethylbenzene	78	(30 - 131)			SW846 8260B
	78	(30 - 131)	0.10	(0-30)	SW846 8260B
Hexachlorobutadiene	64	(10 - 131)			SW846 8260B
	62	(10 - 131)	3.7	(0-30)	SW846 8260B
Isopropylbenzene	78	(21 - 134)			SW846 8260B
	71	(21 - 134)	9.3	(0-30)	SW846 8260B
p-Isopropyltoluene	71	(10 - 165)			SW846 8260B
	72	(10 - 165)	1.6	(0-30)	SW846 8260B
Methylene chloride	88	(54 - 115)			SW846 8260B
	74	(54 - 115)	12	(0-30)	SW846 8260B
Naphthalene	74	(10 - 124)			SW846 8260B
	66	(10 - 124)	11	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
MS Lot-Sample #: A0K200424-001 MAC471AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
n-Propylbenzene	75	(10 - 178)			SW846 8260B
	78	(10 - 178)	3.2	(0-30)	SW846 8260B
Styrene	82	(27 - 127)			SW846 8260B
	82	(27 - 127)	0.39	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	89	(34 - 135)			SW846 8260B
	76	(34 - 135)	15	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	85	(16 - 179)			SW846 8260B
	81	(16 - 179)	4.6	(0-30)	SW846 8260B
Tetrachloroethene	87	(31 - 135)			SW846 8260B
	84	(31 - 135)	4.1	(0-30)	SW846 8260B
Toluene	79	(39 - 129)			SW846 8260B
	77	(39 - 129)	1.8	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	70	(10 - 110)			SW846 8260B
	64	(10 - 110)	9.4	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	70	(10 - 111)			SW846 8260B
	64	(10 - 111)	9.2	(0-30)	SW846 8260B
1,1,1-Trichloroethane	95	(51 - 128)			SW846 8260B
	89	(51 - 128)	6.4	(0-30)	SW846 8260B
1,1,2-Trichloroethane	86	(10 - 166)			SW846 8260B
	83	(10 - 166)	4.0	(0-30)	SW846 8260B
Trichloroethene	90	(10 - 177)			SW846 8260B
	90	(10 - 177)	0.26	(0-30)	SW846 8260B
Trichlorofluoromethane	109	(36 - 142)			SW846 8260B
	99	(36 - 142)	8.5	(0-30)	SW846 8260B
1,2,3-Trichloropropane	82	(32 - 174)			SW846 8260B
	87	(32 - 174)	4.9	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	73	(10 - 173)			SW846 8260B
	73	(10 - 173)	0.46	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	72	(10 - 171)			SW846 8260B
	72	(10 - 171)	0.45	(0-30)	SW846 8260B
Vinyl chloride	90	(42 - 117)			SW846 8260B
	81	(42 - 117)	11	(0-30)	SW846 8260B
m-Xylene & p-Xylene	77	(29 - 131)			SW846 8260B
	75	(29 - 131)	1.3	(0-30)	SW846 8260B
o-Xylene	80	(29 - 134)			SW846 8260B
	74	(29 - 134)	7.6	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(37 - 132)
	105	(37 - 132)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
MS Lot-Sample #: A0K200424-001 MAC471AE-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	107	(67 - 125)
	104	(67 - 125)
4-Bromofluorobenzene	96	(52 - 136)
	106	(52 - 136)
1,2-Dichloroethane-d4	96	(58 - 123)
	94	(58 - 123)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
 MS Lot-Sample #: A0K200424-001 MAC471AE-MSD
 Date Sampled...: 11/19/10 08:45 Date Received...: 11/20/10
 Prep Date.....: 11/29/10 Analysis Date...: 11/29/10
 Prep Batch #...: 0335244
 Dilution Factor: 1 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD	
	AMOUNT	AMT	AMOUNT		RECVRY	RPD		
Benzene	ND	100	85	ug/kg	85		SW846	8260B
	ND	100	84	ug/kg	83	2.1	SW846	8260B
Bromobenzene	ND	100	74	ug/kg	74		SW846	8260B
	ND	100	80	ug/kg	80	7.4	SW846	8260B
Acetone	ND	200	160	ug/kg	67		SW846	8260B
	ND	200	140	ug/kg	57	14	SW846	8260B
Carbon disulfide	ND	100	98	ug/kg	98		SW846	8260B
	ND	100	90	ug/kg	90	8.2	SW846	8260B
Bromochloromethane	ND	100	94	ug/kg	94		SW846	8260B
	ND	100	86	ug/kg	86	9.1	SW846	8260B
1,2-Dichloroethene (total)	ND	200	180	ug/kg	92		SW846	8260B
	ND	200	170	ug/kg	84	8.4	SW846	8260B
Bromodichloromethane	ND	100	85	ug/kg	86		SW846	8260B
	ND	100	87	ug/kg	87	2.0	SW846	8260B
2-Butanone	ND	200	160	ug/kg	79		SW846	8260B
	ND	200	150	ug/kg	75	4.7	SW846	8260B
Bromoform	ND	100	67	ug/kg	67		SW846	8260B
	ND	100	63	ug/kg	63	5.8	SW846	8260B
Bromomethane	ND	100	100	ug/kg	102		SW846	8260B
	ND	100	90	ug/kg	90	12	SW846	8260B
n-Butylbenzene	ND	100	66	ug/kg	66		SW846	8260B
	ND	100	68	ug/kg	68	3.5	SW846	8260B
4-Methyl-2-pentanone	ND	200	160	ug/kg	81		SW846	8260B
	ND	200	150	ug/kg	74	9.8	SW846	8260B
sec-Butylbenzene	ND	100	69	ug/kg	70		SW846	8260B
	ND	100	70	ug/kg	70	0.57	SW846	8260B
2-Hexanone	ND	200	150	ug/kg	77		SW846	8260B
	ND	200	170	ug/kg	83	6.9	SW846	8260B
tert-Butylbenzene	ND	100	74	ug/kg	74		SW846	8260B
	ND	100	73	ug/kg	73	1.2	SW846	8260B
Carbon tetrachloride	ND	100	96	ug/kg	97		SW846	8260B
	ND	100	91	ug/kg	91	6.1	SW846	8260B
Xylenes (total)	ND	300	230	ug/kg	78		SW846	8260B
	ND	300	220	ug/kg	75	3.4	SW846	8260B
Chlorobenzene	ND	100	76	ug/kg	76		SW846	8260B
	ND	100	76	ug/kg	76	0.16	SW846	8260B
n-Hexane	ND	100	110	ug/kg	108		SW846	8260B
	ND	100	110	ug/kg	109	0.83	SW846	8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
MS Lot-Sample #: A0K200424-001 MAC471AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dibromochloromethane	ND	100	71	ug/kg	71		SW846 8260B
	ND	100	69	ug/kg	69	2.3	SW846 8260B
Methyl tert-butyl ether	ND	100	87	ug/kg	87		SW846 8260B
	ND	100	76	ug/kg	76	14	SW846 8260B
Cyclohexane	ND	100	100	ug/kg	100		SW846 8260B
	ND	100	92	ug/kg	92	8.2	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	100	68	ug/kg	68		SW846 8260B
	ND	100	63	ug/kg	63	7.2	SW846 8260B
Chloroethane	ND	100	94	ug/kg	95		SW846 8260B
	ND	100	88	ug/kg	88	6.7	SW846 8260B
Chloroform	ND	100	94	ug/kg	94		SW846 8260B
	ND	100	87	ug/kg	87	7.4	SW846 8260B
Chloromethane	ND	100	77	ug/kg	77		SW846 8260B
	ND	100	68	ug/kg	68	13	SW846 8260B
Trichlorotrifluoroethane	ND	100	120	ug/kg	123		SW846 8260B
	ND	100	120	ug/kg	115	6.3	SW846 8260B
Methyl acetate	ND	100	77	ug/kg	77		SW846 8260B
	ND	100	69	ug/kg	69	11	SW846 8260B
Methylcyclohexane	ND	100	96	ug/kg	96		SW846 8260B
	ND	100	89	ug/kg	89	7.4	SW846 8260B
2-Chlorotoluene	ND	100	72	ug/kg	72		SW846 8260B
	ND	100	74	ug/kg	74	3.2	SW846 8260B
2-Chloroethyl vinyl ether	ND	100	0.0	ug/kg	0.0 a		SW846 8260B
	ND	100	0.0	ug/kg	0.0 a	0.0	SW846 8260B
4-Chlorotoluene	ND	100	70	ug/kg	71		SW846 8260B
	ND	100	75	ug/kg	75	5.8	SW846 8260B
1,2-Dibromoethane	ND	100	84	ug/kg	84		SW846 8260B
	ND	100	86	ug/kg	86	2.2	SW846 8260B
Cyclohexanone	ND	1000	830	ug/kg	83		SW846 8260B
	ND	1000	790	ug/kg	79	4.7	SW846 8260B
Dibromomethane	ND	100	93	ug/kg	93		SW846 8260B
	ND	100	88	ug/kg	88	4.9	SW846 8260B
1,2-Dichlorobenzene	ND	100	71	ug/kg	71		SW846 8260B
	ND	100	67	ug/kg	67	4.5	SW846 8260B
1,3-Dichlorobenzene	ND	100	68	ug/kg	68		SW846 8260B
	ND	100	69	ug/kg	69	0.88	SW846 8260B
Iodomethane	ND	100	120	ug/kg	122		SW846 8260B
	ND	100	110	ug/kg	111	8.8	SW846 8260B
1,4-Dichlorobenzene	ND	100	66	ug/kg	66		SW846 8260B
	ND	100	66	ug/kg	66	0.50	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
MS Lot-Sample #: A0K200424-001 MAC471AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Isopropyl ether	ND	100	91	ug/kg	91		SW846 8260B
	ND	100	85	ug/kg	85	7.0	SW846 8260B
Dichlorodifluoromethane	ND	100	74	ug/kg	71		SW846 8260B
	ND	100	65	ug/kg	62	13	SW846 8260B
1,1-Dichloroethane	ND	100	94	ug/kg	93		SW846 8260B
	ND	100	88	ug/kg	87	6.8	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	100	120	ug/kg	123		SW846 8260B
	ND	100	120	ug/kg	115	6.3	SW846 8260B
1,2-Dichloroethane	ND	100	87	ug/kg	87		SW846 8260B
	ND	100	86	ug/kg	86	1.4	SW846 8260B
cis-1,2-Dichloroethene	ND	100	91	ug/kg	91		SW846 8260B
	ND	100	85	ug/kg	85	6.9	SW846 8260B
trans-1,2-Dichloroethene	ND	100	93	ug/kg	93		SW846 8260B
	ND	100	84	ug/kg	84	9.9	SW846 8260B
1,1-Dichloroethene	ND	100	100	ug/kg	105		SW846 8260B
	ND	100	96	ug/kg	96	8.4	SW846 8260B
1,2-Dichloropropane	ND	100	87	ug/kg	87		SW846 8260B
	ND	100	88	ug/kg	88	1.4	SW846 8260B
1,3-Dichloropropane	ND	100	80	ug/kg	80		SW846 8260B
	ND	100	82	ug/kg	82	2.9	SW846 8260B
2,2-Dichloropropane	ND	100	93	ug/kg	94		SW846 8260B
	ND	100	83	ug/kg	83	12	SW846 8260B
cis-1,3-Dichloropropene	ND	100	74	ug/kg	74		SW846 8260B
	ND	100	83	ug/kg	83	11	SW846 8260B
trans-1,3-Dichloropropene	ND	100	78	ug/kg	78		SW846 8260B
	ND	100	87	ug/kg	87	11	SW846 8260B
1,1-Dichloropropene	ND	100	88	ug/kg	88		SW846 8260B
	ND	100	85	ug/kg	85	2.8	SW846 8260B
Ethylbenzene	ND	100	78	ug/kg	78		SW846 8260B
	ND	100	78	ug/kg	78	0.10	SW846 8260B
Hexachlorobutadiene	ND	100	64	ug/kg	64		SW846 8260B
	ND	100	62	ug/kg	62	3.7	SW846 8260B
Isopropylbenzene	ND	100	78	ug/kg	78		SW846 8260B
	ND	100	71	ug/kg	71	9.3	SW846 8260B
p-Isopropyltoluene	ND	100	71	ug/kg	71		SW846 8260B
	ND	100	72	ug/kg	72	1.6	SW846 8260B
Methylene chloride	38	100	130	ug/kg	88		SW846 8260B
	38	100	110	ug/kg	74	12	SW846 8260B
Naphthalene	ND	100	74	ug/kg	74		SW846 8260B
	ND	100	66	ug/kg	66	11	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
MS Lot-Sample #: A0K200424-001 MAC471AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
n-Propylbenzene	ND	100	75	ug/kg	75		SW846 8260B
	ND	100	78	ug/kg	78	3.2	SW846 8260B
Styrene	ND	100	82	ug/kg	82		SW846 8260B
	ND	100	82	ug/kg	82	0.39	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	100	89	ug/kg	89		SW846 8260B
	ND	100	76	ug/kg	76	15	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	85	ug/kg	85		SW846 8260B
	ND	100	81	ug/kg	81	4.6	SW846 8260B
Tetrachloroethene	ND	100	88	ug/kg	87		SW846 8260B
	ND	100	84	ug/kg	84	4.1	SW846 8260B
Toluene	ND	100	87	ug/kg	79		SW846 8260B
	ND	100	85	ug/kg	77	1.8	SW846 8260B
1,2,3-Trichlorobenzene	ND	100	70	ug/kg	70		SW846 8260B
	ND	100	64	ug/kg	64	9.4	SW846 8260B
1,2,4-Trichloro- benzene	ND	100	70	ug/kg	70		SW846 8260B
	ND	100	64	ug/kg	64	9.2	SW846 8260B
1,1,1-Trichloroethane	ND	100	95	ug/kg	95		SW846 8260B
	ND	100	89	ug/kg	89	6.4	SW846 8260B
1,1,2-Trichloroethane	ND	100	86	ug/kg	86		SW846 8260B
	ND	100	82	ug/kg	83	4.0	SW846 8260B
Trichloroethene	ND	100	91	ug/kg	90		SW846 8260B
	ND	100	90	ug/kg	90	0.26	SW846 8260B
Trichlorofluoromethane	ND	100	120	ug/kg	109		SW846 8260B
	ND	100	110	ug/kg	99	8.5	SW846 8260B
1,2,3-Trichloropropane	ND	100	82	ug/kg	82		SW846 8260B
	ND	100	86	ug/kg	87	4.9	SW846 8260B
1,2,4-Trimethylbenzene	ND	100	73	ug/kg	73		SW846 8260B
	ND	100	73	ug/kg	73	0.46	SW846 8260B
1,3,5-Trimethylbenzene	ND	100	72	ug/kg	72		SW846 8260B
	ND	100	72	ug/kg	72	0.45	SW846 8260B
Vinyl chloride	ND	100	90	ug/kg	90		SW846 8260B
	ND	100	81	ug/kg	81	11	SW846 8260B
m-Xylene & p-Xylene	ND	200	150	ug/kg	77		SW846 8260B
	ND	200	150	ug/kg	75	1.3	SW846 8260B
o-Xylene	ND	100	80	ug/kg	80		SW846 8260B
	ND	100	74	ug/kg	74	7.6	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(37 - 132)
	105	(37 - 132)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAC471AD-MS Matrix.....: SO
MS Lot-Sample #: A0K200424-001 MAC471AE-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	107	(67 - 125)
	104	(67 - 125)
4-Bromofluorobenzene	96	(52 - 136)
	106	(52 - 136)
1,2-Dichloroethane-d4	96	(58 - 123)
	94	(58 - 123)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD
 Date Sampled...: 11/18/10 14:50 Date Received...: 11/20/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0337316
 Dilution Factor: 5.71 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	88	(72 - 121)			SW846 8260B
	87	(72 - 121)	0.13	(0-30)	SW846 8260B
Bromobenzene	83	(71 - 116)			SW846 8260B
	84	(71 - 116)	0.84	(0-30)	SW846 8260B
Acetone	71	(33 - 145)			SW846 8260B
	68	(33 - 145)	4.3	(0-30)	SW846 8260B
Carbon disulfide	117	(57 - 147)			SW846 8260B
	121	(57 - 147)	2.9	(0-30)	SW846 8260B
Bromochloromethane	93	(73 - 121)			SW846 8260B
	95	(73 - 121)	2.2	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	79	(75 - 119)			SW846 8260B
	83	(75 - 119)	1.4	(0-30)	SW846 8260B
Bromodichloromethane	90	(67 - 120)			SW846 8260B
	90	(67 - 120)	0.41	(0-30)	SW846 8260B
2-Butanone	69	(54 - 129)			SW846 8260B
	65	(54 - 129)	5.9	(0-30)	SW846 8260B
Bromoform	82	(32 - 128)			SW846 8260B
	85	(32 - 128)	3.6	(0-30)	SW846 8260B
Bromomethane	63	(10 - 186)			SW846 8260B
	63	(10 - 186)	0.07	(0-30)	SW846 8260B
n-Butylbenzene	99	(56 - 127)			SW846 8260B
	99	(56 - 127)	0.55	(0-30)	SW846 8260B
4-Methyl-2-pentanone	71	(56 - 131)			SW846 8260B
	71	(56 - 131)	0.17	(0-30)	SW846 8260B
sec-Butylbenzene	93	(60 - 119)			SW846 8260B
	92	(60 - 119)	1.4	(0-30)	SW846 8260B
2-Hexanone	68	(47 - 139)			SW846 8260B
	68	(47 - 139)	0.03	(0-30)	SW846 8260B
tert-Butylbenzene	88	(61 - 119)			SW846 8260B
	87	(61 - 119)	0.77	(0-30)	SW846 8260B
Carbon tetrachloride	96	(59 - 129)			SW846 8260B
	99	(59 - 129)	3.1	(0-30)	SW846 8260B
Xylenes (total)	97	(76 - 116)			SW846 8260B
	101	(76 - 116)	3.8	(0-30)	SW846 8260B
Chlorobenzene	95	(80 - 110)			SW846 8260B
	96	(80 - 110)	1.1	(0-30)	SW846 8260B
Dibromochloromethane	88	(56 - 118)			SW846 8260B
	90	(56 - 118)	3.1	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	109	(70 - 152)			SW846 8260B
	112	(70 - 152)	2.3	(0-30)	SW846 8260B
Methyl acetate	77	(47 - 130)			SW846 8260B
	75	(47 - 130)	2.0	(0-30)	SW846 8260B
Chloroethane	85	(21 - 165)			SW846 8260B
	81	(21 - 165)	5.1	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	82	(46 - 144)			SW846 8260B
	86	(46 - 144)	4.5	(0-30)	SW846 8260B
Cyclohexane	92	(49 - 123)			SW846 8260B
	94	(49 - 123)	2.0	(0-30)	SW846 8260B
Methylcyclohexane	87	(49 - 127)			SW846 8260B
	90	(49 - 127)	2.8	(0-30)	SW846 8260B
Chloroform	93	(76 - 118)			SW846 8260B
	96	(76 - 118)	3.1	(0-30)	SW846 8260B
Chloromethane	95	(33 - 132)			SW846 8260B
	89	(33 - 132)	6.0	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	91	(32 - 139)			SW846 8260B
	100	(32 - 139)	9.5	(0-30)	SW846 8260B
2-Chlorotoluene	86	(69 - 117)			SW846 8260B
	87	(69 - 117)	0.40	(0-30)	SW846 8260B
Methyl tert-butyl ether	82	(46 - 144)			SW846 8260B
	86	(46 - 144)	4.5	(0-30)	SW846 8260B
n-Hexane	89	(54 - 138)			SW846 8260B
	93	(54 - 138)	4.9	(0-30)	SW846 8260B
4-Chlorotoluene	85	(71 - 116)			SW846 8260B
	85	(71 - 116)	0.23	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
1,2-Dibromoethane	88	(74 - 113)			SW846 8260B
	88	(74 - 113)	0.09	(0-30)	SW846 8260B
Vinyl acetate	101	(43 - 157)			SW846 8260B
	102	(43 - 157)	0.83	(0-30)	SW846 8260B
Dibromomethane	93	(77 - 121)			SW846 8260B
	95	(77 - 121)	1.6	(0-30)	SW846 8260B
1,2-Dichlorobenzene	99	(75 - 111)			SW846 8260B
	101	(75 - 111)	1.8	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	93	(73 - 110)			SW846 8260B
	96	(73 - 110)	3.4	(0-30)	SW846 8260B
1,4-Dichlorobenzene	92	(75 - 110)			SW846 8260B
	94	(75 - 110)	2.1	(0-30)	SW846 8260B
Iodomethane	117	(66 - 144)			SW846 8260B
	123	(66 - 144)	4.5	(0-30)	SW846 8260B
Isopropyl ether	91	(73 - 118)			SW846 8260B
	94	(73 - 118)	3.8	(0-30)	SW846 8260B
Dichlorodifluoromethane	84	(17 - 128)			SW846 8260B
	86	(17 - 128)	1.7	(0-30)	SW846 8260B
1,1-Dichloroethane	94	(79 - 116)			SW846 8260B
	97	(79 - 116)	2.3	(0-30)	SW846 8260B
1,2-Dichloroethane	89	(68 - 129)			SW846 8260B
	91	(68 - 129)	1.8	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	65 a	(70 - 120)			SW846 8260B
	70	(70 - 120)	1.1	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	93	(80 - 119)			SW846 8260B
	96	(80 - 119)	2.3	(0-30)	SW846 8260B
1,1-Dichloroethene	93	(74 - 135)			SW846 8260B
	96	(74 - 135)	1.8	(0-30)	SW846 8260B
1,2-Dichloropropane	94	(78 - 115)			SW846 8260B
	97	(78 - 115)	2.9	(0-30)	SW846 8260B
1,3-Dichloropropane	91	(74 - 118)			SW846 8260B
	92	(74 - 118)	1.1	(0-30)	SW846 8260B
2,2-Dichloropropane	83	(38 - 127)			SW846 8260B
	86	(38 - 127)	3.7	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	80	(51 - 110)			SW846 8260B
	80	(51 - 110)	0.79	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	85	(46 - 116)			SW846 8260B
	87	(46 - 116)	1.5	(0-30)	SW846 8260B
1,1-Dichloropropene	91	(80 - 114)			SW846 8260B
	93	(80 - 114)	2.4	(0-30)	SW846 8260B
Ethylbenzene	94	(75 - 116)			SW846 8260B
	98	(75 - 116)	3.6	(0-30)	SW846 8260B
Hexachlorobutadiene	89	(27 - 132)			SW846 8260B
	88	(27 - 132)	0.91	(0-30)	SW846 8260B
Isopropylbenzene	100	(68 - 116)			SW846 8260B
	105	(68 - 116)	4.6	(0-30)	SW846 8260B
p-Isopropyltoluene	100	(64 - 122)			SW846 8260B
	98	(64 - 122)	1.4	(0-30)	SW846 8260B
Methylene chloride	98	(63 - 128)			SW846 8260B
	102	(63 - 128)	3.9	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	92	(15 - 158)			SW846 8260B
	101	(15 - 158)	9.4	(0-30)	SW846 8260B
n-Propylbenzene	86	(64 - 124)			SW846 8260B
	86	(64 - 124)	0.25	(0-30)	SW846 8260B
Styrene	98	(71 - 117)			SW846 8260B
	101	(71 - 117)	3.2	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	97	(64 - 118)			SW846 8260B
	104	(64 - 118)	7.4	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	86	(63 - 122)			SW846 8260B
	90	(63 - 122)	4.3	(0-30)	SW846 8260B
Tetrachloroethene	91	(70 - 117)			SW846 8260B
	96	(70 - 117)	6.0	(0-30)	SW846 8260B
Toluene	95	(78 - 114)			SW846 8260B
	100	(78 - 114)	4.8	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	93	(45 - 129)			SW846 8260B
	100	(45 - 129)	6.8	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	101	(38 - 138)			SW846 8260B
	102	(38 - 138)	1.9	(0-30)	SW846 8260B
1,1,1-Trichloroethane	92	(68 - 121)			SW846 8260B
	94	(68 - 121)	2.3	(0-30)	SW846 8260B
1,1,2-Trichloroethane	95	(75 - 115)			SW846 8260B
	97	(75 - 115)	2.1	(0-30)	SW846 8260B
Trichloroethene	90	(66 - 120)			SW846 8260B
	91	(66 - 120)	0.66	(0-30)	SW846 8260B
Trichlorofluoromethane	92	(46 - 157)			SW846 8260B
	97	(46 - 157)	5.1	(0-30)	SW846 8260B
1,2,3-Trichloropropane	77	(67 - 132)			SW846 8260B
	81	(67 - 132)	5.0	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	98	(67 - 124)			SW846 8260B
	99	(67 - 124)	0.88	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	92	(63 - 121)			SW846 8260B
	92	(63 - 121)	0.32	(0-30)	SW846 8260B
Vinyl chloride	82	(49 - 130)			SW846 8260B
	90	(49 - 130)	4.9	(0-30)	SW846 8260B
m-Xylene & p-Xylene	96	(75 - 117)			SW846 8260B
	99	(75 - 117)	3.1	(0-30)	SW846 8260B
o-Xylene	99	(76 - 116)			SW846 8260B
	104	(76 - 116)	5.2	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
	92	(75 - 121)
1,2-Dichloroethane-d4	79	(63 - 129)
	84	(63 - 129)
Toluene-d8	96	(74 - 115)
	99	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)
	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD
 Date Sampled...: 11/18/10 14:50 Date Received...: 11/20/10
 Prep Date.....: 12/02/10 Analysis Date...: 12/02/10
 Prep Batch #...: 0337316
 Dilution Factor: 5.71 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	77	57	130	ug/L	88		SW846 8260B
	77	57	130	ug/L	87	0.13	SW846 8260B
Bromobenzene	ND	57	47	ug/L	83		SW846 8260B
	ND	57	48	ug/L	84	0.84	SW846 8260B
Acetone	ND	110	81	ug/L	71		SW846 8260B
	ND	110	78	ug/L	68	4.3	SW846 8260B
Carbon disulfide	ND	57	67	ug/L	117		SW846 8260B
	ND	57	69	ug/L	121	2.9	SW846 8260B
Bromochloromethane	ND	57	53	ug/L	93		SW846 8260B
	ND	57	54	ug/L	95	2.2	SW846 8260B
1,2-Dichloroethene (total)	200	110	290	ug/L	79		SW846 8260B
	200	110	300	ug/L	83	1.4	SW846 8260B
Bromodichloromethane	ND	57	51	ug/L	90		SW846 8260B
	ND	57	51	ug/L	90	0.41	SW846 8260B
2-Butanone	ND	110	79	ug/L	69		SW846 8260B
	ND	110	75	ug/L	65	5.9	SW846 8260B
Bromoform	ND	57	47	ug/L	82		SW846 8260B
	ND	57	48	ug/L	85	3.6	SW846 8260B
Bromomethane	ND	57	36	ug/L	63		SW846 8260B
	ND	57	36	ug/L	63	0.07	SW846 8260B
n-Butylbenzene	ND	57	57	ug/L	99		SW846 8260B
	ND	57	56	ug/L	99	0.55	SW846 8260B
4-Methyl-2-pentanone	ND	110	81	ug/L	71		SW846 8260B
	ND	110	81	ug/L	71	0.17	SW846 8260B
sec-Butylbenzene	ND	57	53	ug/L	93		SW846 8260B
	ND	57	53	ug/L	92	1.4	SW846 8260B
2-Hexanone	ND	110	78	ug/L	68		SW846 8260B
	ND	110	78	ug/L	68	0.03	SW846 8260B
tert-Butylbenzene	ND	57	50	ug/L	88		SW846 8260B
	ND	57	50	ug/L	87	0.77	SW846 8260B
Carbon tetrachloride	ND	57	55	ug/L	96		SW846 8260B
	ND	57	56	ug/L	99	3.1	SW846 8260B
Xylenes (total)	ND	170	170	ug/L	97		SW846 8260B
	ND	170	170	ug/L	101	3.8	SW846 8260B
Chlorobenzene	ND	57	54	ug/L	95		SW846 8260B
	ND	57	55	ug/L	96	1.1	SW846 8260B
Dibromochloromethane	ND	57	50	ug/L	88		SW846 8260B
	ND	57	52	ug/L	90	3.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	57	62	ug/L	109		SW846 8260B
	ND	57	64	ug/L	112	2.3	SW846 8260B
Methyl acetate	ND	57	44	ug/L	77		SW846 8260B
	ND	57	43	ug/L	75	2.0	SW846 8260B
Chloroethane	ND	57	49	ug/L	85		SW846 8260B
	ND	57	46	ug/L	81	5.1	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	57	47	ug/L	82		SW846 8260B
	ND	57	49	ug/L	86	4.5	SW846 8260B
Cyclohexane	ND	57	52	ug/L	92		SW846 8260B
	ND	57	54	ug/L	94	2.0	SW846 8260B
Methylcyclohexane	ND	57	50	ug/L	87		SW846 8260B
	ND	57	51	ug/L	90	2.8	SW846 8260B
Chloroform	ND	57	53	ug/L	93		SW846 8260B
	ND	57	55	ug/L	96	3.1	SW846 8260B
Chloromethane	ND	57	54	ug/L	95		SW846 8260B
	ND	57	51	ug/L	89	6.0	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	57	52	ug/L	91		SW846 8260B
	ND	57	57	ug/L	100	9.5	SW846 8260B
2-Chlorotoluene	ND	57	49	ug/L	86		SW846 8260B
	ND	57	50	ug/L	87	0.40	SW846 8260B
Methyl tert-butyl ether	ND	57	47	ug/L	82		SW846 8260B
	ND	57	49	ug/L	86	4.5	SW846 8260B
n-Hexane	ND	57	51	ug/L	89		SW846 8260B
	ND	57	53	ug/L	93	4.9	SW846 8260B
4-Chlorotoluene	ND	57	49	ug/L	85		SW846 8260B
	ND	57	48	ug/L	85	0.23	SW846 8260B
2-Chloroethyl vinyl ether	ND	57	0.0	ug/L	0.0 a		SW846 8260B
	ND	57	0.0	ug/L	0.0 a	0.0	SW846 8260B
1,2-Dibromoethane	ND	57	50	ug/L	88		SW846 8260B
	ND	57	50	ug/L	88	0.09	SW846 8260B
Vinyl acetate	ND	57	58	ug/L	101		SW846 8260B
	ND	57	58	ug/L	102	0.83	SW846 8260B
Dibromomethane	ND	57	53	ug/L	93		SW846 8260B
	ND	57	54	ug/L	95	1.6	SW846 8260B
1,2-Dichlorobenzene	ND	57	57	ug/L	99		SW846 8260B
	ND	57	58	ug/L	101	1.8	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 **Work Order #...**: MAD2X1AC-MS **Matrix.....**: WATER
MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,3-Dichlorobenzene	ND	57	53	ug/L	93		SW846 8260B
	ND	57	55	ug/L	96	3.4	SW846 8260B
1,4-Dichlorobenzene	ND	57	53	ug/L	92		SW846 8260B
	ND	57	54	ug/L	94	2.1	SW846 8260B
Iodomethane	ND	57	67	ug/L	117		SW846 8260B
	ND	57	70	ug/L	123	4.5	SW846 8260B
Isopropyl ether	ND	57	52	ug/L	91		SW846 8260B
	ND	57	54	ug/L	94	3.8	SW846 8260B
Dichlorodifluoromethane	ND	57	50	ug/L	84		SW846 8260B
	ND	57	51	ug/L	86	1.7	SW846 8260B
1,1-Dichloroethane	9.7	57	63	ug/L	94		SW846 8260B
	9.7	57	65	ug/L	97	2.3	SW846 8260B
1,2-Dichloroethane	ND	57	51	ug/L	89		SW846 8260B
	ND	57	52	ug/L	91	1.8	SW846 8260B
cis-1,2-Dichloroethene	190	57	230	ug/L	65 a		SW846 8260B
	190	57	230	ug/L	70	1.1	SW846 8260B
trans-1,2-Dichloroethene	13	57	67	ug/L	93		SW846 8260B
	13	57	68	ug/L	96	2.3	SW846 8260B
1,1-Dichloroethene	17	57	71	ug/L	93		SW846 8260B
	17	57	72	ug/L	96	1.8	SW846 8260B
1,2-Dichloropropane	ND	57	54	ug/L	94		SW846 8260B
	ND	57	55	ug/L	97	2.9	SW846 8260B
1,3-Dichloropropane	ND	57	52	ug/L	91		SW846 8260B
	ND	57	52	ug/L	92	1.1	SW846 8260B
2,2-Dichloropropane	ND	57	47	ug/L	83		SW846 8260B
	ND	57	49	ug/L	86	3.7	SW846 8260B
cis-1,3-Dichloropropene	ND	57	46	ug/L	80		SW846 8260B
	ND	57	45	ug/L	80	0.79	SW846 8260B
trans-1,3-Dichloropropene	ND	57	49	ug/L	85		SW846 8260B
	ND	57	50	ug/L	87	1.5	SW846 8260B
1,1-Dichloropropene	ND	57	52	ug/L	91		SW846 8260B
	ND	57	53	ug/L	93	2.4	SW846 8260B
Ethylbenzene	ND	57	54	ug/L	94		SW846 8260B
	ND	57	56	ug/L	98	3.6	SW846 8260B
Hexachlorobutadiene	ND	57	51	ug/L	89		SW846 8260B
	ND	57	50	ug/L	88	0.91	SW846 8260B
Isopropylbenzene	ND	57	57	ug/L	100		SW846 8260B
	ND	57	60	ug/L	105	4.6	SW846 8260B
p-Isopropyltoluene	ND	57	57	ug/L	100		SW846 8260B
	ND	57	56	ug/L	98	1.4	SW846 8260B
Methylene chloride	ND	57	56	ug/L	98		SW846 8260B
	ND	57	58	ug/L	102	3.9	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Naphthalene	ND	57	52	ug/L	92		SW846 8260B
	ND	57	58	ug/L	101	9.4	SW846 8260B
n-Propylbenzene	ND	57	49	ug/L	86		SW846 8260B
	ND	57	49	ug/L	86	0.25	SW846 8260B
Styrene	ND	57	56	ug/L	98		SW846 8260B
	ND	57	58	ug/L	101	3.2	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	57	55	ug/L	97		SW846 8260B
	ND	57	59	ug/L	104	7.4	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	57	49	ug/L	86		SW846 8260B
	ND	57	51	ug/L	90	4.3	SW846 8260B
Tetrachloroethene	ND	57	52	ug/L	91		SW846 8260B
	ND	57	55	ug/L	96	6.0	SW846 8260B
Toluene	ND	57	54	ug/L	95		SW846 8260B
	ND	57	57	ug/L	100	4.8	SW846 8260B
1,2,3-Trichlorobenzene	ND	57	53	ug/L	93		SW846 8260B
	ND	57	57	ug/L	100	6.8	SW846 8260B
1,2,4-Trichloro- benzene	ND	57	57	ug/L	101		SW846 8260B
	ND	57	59	ug/L	102	1.9	SW846 8260B
1,1,1-Trichloroethane	ND	57	53	ug/L	92		SW846 8260B
	ND	57	54	ug/L	94	2.3	SW846 8260B
1,1,2-Trichloroethane	ND	57	55	ug/L	95		SW846 8260B
	ND	57	56	ug/L	97	2.1	SW846 8260B
Trichloroethene	20	57	72	ug/L	90		SW846 8260B
	20	57	72	ug/L	91	0.66	SW846 8260B
Trichlorofluoromethane	ND	57	53	ug/L	92		SW846 8260B
	ND	57	55	ug/L	97	5.1	SW846 8260B
1,2,3-Trichloropropane	ND	57	44	ug/L	77		SW846 8260B
	ND	57	46	ug/L	81	5.0	SW846 8260B
1,2,4-Trimethylbenzene	ND	57	56	ug/L	98		SW846 8260B
	ND	57	57	ug/L	99	0.88	SW846 8260B
1,3,5-Trimethylbenzene	ND	57	53	ug/L	92		SW846 8260B
	ND	57	53	ug/L	92	0.32	SW846 8260B
Vinyl chloride	39	57	86	ug/L	82		SW846 8260B
	39	57	91	ug/L	90	4.9	SW846 8260B
m-Xylene & p-Xylene	ND	110	110	ug/L	96		SW846 8260B
	ND	110	110	ug/L	99	3.1	SW846 8260B
o-Xylene	ND	57	57	ug/L	99		SW846 8260B
	ND	57	60	ug/L	104	5.2	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0K200424 Work Order #...: MAD2X1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A0K220417-001 MAD2X1AD-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
	92	(75 - 121)
1,2-Dichloroethane-d4	79	(63 - 129)
	84	(63 - 129)
Toluene-d8	96	(74 - 115)
	99	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)
	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

GENERAL CHEMISTRY DATA

TRW Automotive

Client Sample ID: MW-108 BH@80' 20101119

General Chemistry

Lot-Sample #...: A0K200424-001 Work Order #...: MAC47 Matrix.....: SO
Date Sampled...: 11/19/10 08:45 Date Received..: 11/20/10
% Moisture.....: 50

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	50.1	10.0	%	MCAWW 160.3 MOD	12/01-12/02/10	0335256

Dilution Factor: 1

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0K200424

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids		Work Order #: MAPGX1AA		MB Lot-Sample #:	A0L010000-256	
	ND	10.0	%	MCAWW 160.3 MOD	12/01-12/02/10	0335256
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0K200424

Work Order #...: MADXD-SMP
MADXD-DUP

Matrix.....: SOLID

Date Sampled...: 11/19/10

Date Received...: 11/20/10

% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	83.3	82.9	%	0.42	(0-20)	SD Lot-Sample #: A0K220405-012 MCAWW 160.3 MOD	12/01-12/02/10	0335256

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0K200424

Work Order #...: MAE2N-SMP
MAE2N-DUP

Matrix.....: SOLID

Date Sampled...: 11/17/10 10:25 Date Received...: 11/19/10

% Moisture.....: 34

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	66.3	66.8	%	0.72	(0-20)	SD Lot-Sample #: A0K220488-002 MCAWW 160.3 MOD	12/01-12/02/10	0335256

Dilution Factor: 1

END OF REPORT

ANALYTICAL REPORT

REVISED

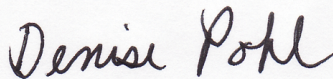
TRW OGV/KC001590.0003.00002

Lot #: A0L030505

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
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Approved for release.
Denise Pohl
Project Manager
3/2/2011 9:27 AM

March 01, 2011

TestAmerica Laboratories, Inc.

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GC/MS Volatile Data	17
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CASE NARRATIVE

CASE NARRATIVE

A0L030505

Revised

The following report contains the analytical results for one water sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGV/KC001590.0003.00002 Site. The samples were received December 02, 2010, according to documented sample acceptance procedures.

Revised report includes sample id change. Per client sample id MW-3 BH@141'-20101201 listed on chain of custody should be MW-108 BH@141' 20101201.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.5°C.

GC/MS VOLATILES

The matrix spike/matrix spike duplicate(s) for batch(es) 0342122 and 0344198 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0L030505

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
NO DETECTABLE PARAMETERS				

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0L030505

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0L030505

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MAT2C	001	MW-108 BH@141' -20101201	12/01/10	12:20
MAT2J	002	TB-20101201	12/01/10	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

North Canton

TestAmerica Cooler Receipt Form/Narrative

Lot Number: 401030505

North Canton Facility

Client ARCADIS Project _____ By: Qu-er (Signature)

Cooler Received on 12-2-10 Opened on 12-2-10

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____

TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐

If YES, Quantity 1 Quantity Unsalvageable _____

Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐

Were custody seals on the bottle(s)? Yes ☐ No ☒

If YES, are there any exceptions? _____

2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐

3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☐ No ☐

4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____

6. Cooler temperature upon receipt 1.5 °C See back of form for multiple coolers/temps ☐

METHOD: IR ☒ Other ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐

9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒

10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐

12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐

Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample

Receiving to meet recommended pH level(s). Nitric Acid Lot# 051010-HNO₃; Sulfuric Acid Lot# 051010-H₂SO₄; Sodium

Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-

(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

[illegible]

Discrepancies Cont'd:

[illegible]

GCMS VOLATILE DATA

TRW Automotive

Client Sample ID: MW-108 BH@141'-20101201

GC/MS Volatiles

Lot-Sample #...: A0L030505-001 Work Order #...: MAT2C1AA Matrix.....: WG
 Date Sampled...: 12/01/10 12:20 Date Received...: 12/02/10
 Prep Date.....: 12/07/10 Analysis Date...: 12/07/10
 Prep Batch #...: 0342122
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: MW-108 BH@141'-20101201

GC/MS Volatiles

Lot-Sample #...: A0L030505-001 Work Order #...: MAT2C1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(75 - 121)
1,2-Dichloroethane-d4	113	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	87	(66 - 117)

TRW Automotive

Client Sample ID: TB-20101201

GC/MS Volatiles

Lot-Sample #...: A0L030505-002 Work Order #...: MAT2J1AA Matrix.....: WQ
 Date Sampled...: 12/01/10 Date Received...: 12/02/10
 Prep Date.....: 12/09/10 Analysis Date...: 12/09/10
 Prep Batch #...: 0344198
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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TRW Automotive

Client Sample ID: TB-20101201

GC/MS Volatiles

Lot-Sample #...: A0L030505-002 Work Order #...: MAT2J1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	111	(75 - 121)
1,2-Dichloroethane-d4	103	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	79	(66 - 117)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0L030505
MB Lot-Sample #: A0L080000-122

Work Order #...: MA1JH1AA

Matrix.....: WATER

Analysis Date...: 12/07/10

Prep Date.....: 12/07/10

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 0342122

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0L030505

Work Order #...: MA1JH1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	103		(75 - 121)	
1,2-Dichloroethane-d4	117		(63 - 129)	
Toluene-d8	84		(74 - 115)	
4-Bromofluorobenzene	86		(66 - 117)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0L030505
MB Lot-Sample #: A0L100000-198

Work Order #...: MA5761AA

Matrix.....: WATER

Analysis Date...: 12/09/10

Prep Date.....: 12/09/10

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 0344198

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0L030505

Work Order #...: MA5761AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
n-Propylbenzene	ND	1.0	ug/L	SW846	8260B
Styrene	ND	1.0	ug/L	SW846	8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
Tetrachloroethene	ND	1.0	ug/L	SW846	8260B
Toluene	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846	8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846	8260B
Trichloroethene	ND	1.0	ug/L	SW846	8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846	8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
Vinyl chloride	ND	1.0	ug/L	SW846	8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846	8260B
o-Xylene	ND	1.0	ug/L	SW846	8260B
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
Dibromofluoromethane	106		(75 - 121)		
1,2-Dichloroethane-d4	99		(63 - 129)		
Toluene-d8	94		(74 - 115)		
4-Bromofluorobenzene	78		(66 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA1JH1AC Matrix.....: WATER
 LCS Lot-Sample#: A0L080000-122
 Prep Date.....: 12/07/10 Analysis Date...: 12/07/10
 Prep Batch #...: 0342122
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	96	(83 - 112)	SW846 8260B
Acetone	79	(43 - 136)	SW846 8260B
Bromobenzene	90	(76 - 115)	SW846 8260B
Carbon disulfide	91	(62 - 142)	SW846 8260B
1,2-Dichloroethene (total)	93	(82 - 114)	SW846 8260B
Bromochloromethane	107	(77 - 120)	SW846 8260B
2-Butanone	94	(60 - 126)	SW846 8260B
Bromodichloromethane	126 a	(72 - 121)	SW846 8260B
Bromoform	104	(40 - 131)	SW846 8260B
Bromomethane	79	(11 - 185)	SW846 8260B
n-Butylbenzene	74	(66 - 125)	SW846 8260B
4-Methyl-2-pentanone	118	(63 - 128)	SW846 8260B
2-Hexanone	103	(55 - 133)	SW846 8260B
sec-Butylbenzene	80	(70 - 117)	SW846 8260B
tert-Butylbenzene	79	(71 - 115)	SW846 8260B
Xylenes (total)	91	(83 - 112)	SW846 8260B
Carbon tetrachloride	125	(66 - 128)	SW846 8260B
Chlorobenzene	89	(85 - 110)	SW846 8260B
Dibromochloromethane	98	(64 - 119)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	107	(74 - 151)	SW846 8260B
Methyl acetate	87	(58 - 131)	SW846 8260B
Chloroethane	76	(25 - 153)	SW846 8260B
Methyl tert-butyl ether (MTBE)	107	(52 - 144)	SW846 8260B
Cyclohexane	83	(54 - 121)	SW846 8260B
Methylcyclohexane	90	(56 - 127)	SW846 8260B
Chloroform	107	(79 - 117)	SW846 8260B
Chloromethane	66	(44 - 126)	SW846 8260B
1,2-Dibromo-3-chloro- propane	80	(42 - 136)	SW846 8260B
2-Chlorotoluene	79	(76 - 116)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505
LCS Lot-Sample#: A0L080000-122

Work Order #...: MA1JH1AC

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl tert-butyl ether	107	(52 - 144)	SW846 8260B
n-Hexane	99	(66 - 137)	SW846 8260B
4-Chlorotoluene	86	(77 - 115)	SW846 8260B
2-Chloroethyl vinyl ether	119	(52 - 131)	SW846 8260B
1,2-Dibromoethane	102	(79 - 113)	SW846 8260B
Vinyl acetate	129	(46 - 161)	SW846 8260B
Dibromomethane	116	(81 - 120)	SW846 8260B
1,2-Dichlorobenzene	83	(81 - 110)	SW846 8260B
1,3-Dichlorobenzene	82	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	84	(82 - 110)	SW846 8260B
Iodomethane	115	(72 - 141)	SW846 8260B
Isopropyl ether	84	(77 - 118)	SW846 8260B
Dichlorodifluoromethane	83	(19 - 129)	SW846 8260B
1,1-Dichloroethane	94	(82 - 115)	SW846 8260B
1,2-Dichloroethane	129 a	(71 - 127)	SW846 8260B
cis-1,2-Dichloroethene	94	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	92	(83 - 117)	SW846 8260B
1,1-Dichloroethene	90	(78 - 131)	SW846 8260B
1,2-Dichloropropane	101	(81 - 115)	SW846 8260B
1,3-Dichloropropane	91	(79 - 116)	SW846 8260B
2,2-Dichloropropane	99	(50 - 129)	SW846 8260B
cis-1,3-Dichloropropene	109	(61 - 115)	SW846 8260B
trans-1,3-Dichloropropene	100	(58 - 117)	SW846 8260B
1,1-Dichloropropene	100	(83 - 114)	SW846 8260B
Ethylbenzene	89	(83 - 112)	SW846 8260B
Hexachlorobutadiene	74	(36 - 134)	SW846 8260B
Isopropylbenzene	86	(75 - 114)	SW846 8260B
p-Isopropyltoluene	85	(74 - 120)	SW846 8260B
Methylene chloride	81	(66 - 131)	SW846 8260B
Naphthalene	85	(32 - 141)	SW846 8260B
n-Propylbenzene	87	(74 - 121)	SW846 8260B
Styrene	98	(79 - 114)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(72 - 116)	SW846 8260B
1,1,2,2-Tetrachloroethane	78	(68 - 118)	SW846 8260B
Tetrachloroethene	99	(79 - 114)	SW846 8260B
Toluene	85	(84 - 111)	SW846 8260B
1,2,3-Trichlorobenzene	77	(54 - 126)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA1JH1AC Matrix.....: WATER
 LCS Lot-Sample#: A0L080000-122

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,4-Trichloro- benzene	79	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	111	(74 - 118)	SW846 8260B
1,1,2-Trichloroethane	94	(80 - 112)	SW846 8260B
Trichloroethene	114	(76 - 117)	SW846 8260B
Trichlorofluoromethane	124	(49 - 157)	SW846 8260B
1,2,3-Trichloropropane	93	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	86	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	83	(72 - 118)	SW846 8260B
Vinyl chloride	97	(53 - 127)	SW846 8260B
m-Xylene & p-Xylene	91	(83 - 113)	SW846 8260B
o-Xylene	90	(83 - 113)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(75 - 121)
1,2-Dichloroethane-d4	116	(63 - 129)
Toluene-d8	89	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA1JH1AC Matrix.....: WATER
 LCS Lot-Sample#: A0L080000-122
 Prep Date.....: 12/07/10 Analysis Date...: 12/07/10
 Prep Batch #...: 0342122
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10	9.6	ug/L	96	SW846 8260B
Acetone	20	16	ug/L	79	SW846 8260B
Bromobenzene	10	9.0	ug/L	90	SW846 8260B
Carbon disulfide	10	9.1	ug/L	91	SW846 8260B
1,2-Dichloroethene (total)	20	19	ug/L	93	SW846 8260B
Bromochloromethane	10	11	ug/L	107	SW846 8260B
2-Butanone	20	19	ug/L	94	SW846 8260B
Bromodichloromethane	10	13 a	ug/L	126	SW846 8260B
Bromoform	10	10	ug/L	104	SW846 8260B
Bromomethane	10	7.9	ug/L	79	SW846 8260B
n-Butylbenzene	10	7.4	ug/L	74	SW846 8260B
4-Methyl-2-pentanone	20	24	ug/L	118	SW846 8260B
2-Hexanone	20	21	ug/L	103	SW846 8260B
sec-Butylbenzene	10	8.0	ug/L	80	SW846 8260B
tert-Butylbenzene	10	7.9	ug/L	79	SW846 8260B
Xylenes (total)	30	27	ug/L	91	SW846 8260B
Carbon tetrachloride	10	12	ug/L	125	SW846 8260B
Chlorobenzene	10	8.9	ug/L	89	SW846 8260B
Dibromochloromethane	10	9.8	ug/L	98	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	11	ug/L	107	SW846 8260B
Methyl acetate	10	8.7	ug/L	87	SW846 8260B
Chloroethane	10	7.6	ug/L	76	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	11	ug/L	107	SW846 8260B
Cyclohexane	10	8.3	ug/L	83	SW846 8260B
Methylcyclohexane	10	9.0	ug/L	90	SW846 8260B
Chloroform	10	11	ug/L	107	SW846 8260B
Chloromethane	10	6.6	ug/L	66	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	8.0	ug/L	80	SW846 8260B
2-Chlorotoluene	10	7.9	ug/L	79	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505
LCS Lot-Sample#: A0L080000-122

Work Order #...: MA1JH1AC

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Methyl tert-butyl ether	10	11	ug/L	107	SW846 8260B
n-Hexane	10	9.9	ug/L	99	SW846 8260B
4-Chlorotoluene	10	8.6	ug/L	86	SW846 8260B
2-Chloroethyl vinyl ether	10	12	ug/L	119	SW846 8260B
1,2-Dibromoethane	10	10	ug/L	102	SW846 8260B
Vinyl acetate	10	13	ug/L	129	SW846 8260B
Dibromomethane	10	12	ug/L	116	SW846 8260B
1,2-Dichlorobenzene	10	8.3	ug/L	83	SW846 8260B
1,3-Dichlorobenzene	10	8.2	ug/L	82	SW846 8260B
1,4-Dichlorobenzene	10	8.4	ug/L	84	SW846 8260B
Iodomethane	10	11	ug/L	115	SW846 8260B
Isopropyl ether	10	8.4	ug/L	84	SW846 8260B
Dichlorodifluoromethane	10	8.3	ug/L	83	SW846 8260B
1,1-Dichloroethane	10	9.4	ug/L	94	SW846 8260B
1,2-Dichloroethane	10	13 a	ug/L	129	SW846 8260B
cis-1,2-Dichloroethene	10	9.4	ug/L	94	SW846 8260B
trans-1,2-Dichloroethene	10	9.2	ug/L	92	SW846 8260B
1,1-Dichloroethene	10	9.0	ug/L	90	SW846 8260B
1,2-Dichloropropane	10	10	ug/L	101	SW846 8260B
1,3-Dichloropropane	10	9.1	ug/L	91	SW846 8260B
2,2-Dichloropropane	10	9.9	ug/L	99	SW846 8260B
cis-1,3-Dichloropropene	10	11	ug/L	109	SW846 8260B
trans-1,3-Dichloropropene	10	10	ug/L	100	SW846 8260B
1,1-Dichloropropene	10	10	ug/L	100	SW846 8260B
Ethylbenzene	10	8.9	ug/L	89	SW846 8260B
Hexachlorobutadiene	10	7.4	ug/L	74	SW846 8260B
Isopropylbenzene	10	8.6	ug/L	86	SW846 8260B
p-Isopropyltoluene	10	8.5	ug/L	85	SW846 8260B
Methylene chloride	10	8.1	ug/L	81	SW846 8260B
Naphthalene	10	8.5	ug/L	85	SW846 8260B
n-Propylbenzene	10	8.7	ug/L	87	SW846 8260B
Styrene	10	9.8	ug/L	98	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.6	ug/L	96	SW846 8260B
1,1,2,2-Tetrachloroethane	10	7.8	ug/L	78	SW846 8260B
Tetrachloroethene	10	9.9	ug/L	99	SW846 8260B
Toluene	10	8.5	ug/L	85	SW846 8260B
1,2,3-Trichlorobenzene	10	7.7	ug/L	77	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA1JH1AC Matrix.....: WATER
 LCS Lot-Sample#: A0L080000-122

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
1,2,4-Trichloro- benzene	10	7.9	ug/L	79	SW846 8260B
1,1,1-Trichloroethane	10	11	ug/L	111	SW846 8260B
1,1,2-Trichloroethane	10	9.4	ug/L	94	SW846 8260B
Trichloroethene	10	11	ug/L	114	SW846 8260B
Trichlorofluoromethane	10	12	ug/L	124	SW846 8260B
1,2,3-Trichloropropane	10	9.3	ug/L	93	SW846 8260B
1,2,4-Trimethylbenzene	10	8.6	ug/L	86	SW846 8260B
1,3,5-Trimethylbenzene	10	8.3	ug/L	83	SW846 8260B
Vinyl chloride	10	9.7	ug/L	97	SW846 8260B
m-Xylene & p-Xylene	20	18	ug/L	91	SW846 8260B
o-Xylene	10	9.0	ug/L	90	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	103	(75 - 121)
1,2-Dichloroethane-d4	116	(63 - 129)
Toluene-d8	89	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA5761AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L100000-198 MA5761AD-LCSD
 Prep Date.....: 12/09/10 Analysis Date...: 12/09/10
 Prep Batch #...: 0344198
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	95	(83 - 112)			SW846 8260B
	88	(83 - 112)	7.3	(0-30)	SW846 8260B
Acetone	56	(43 - 136)			SW846 8260B
	53	(43 - 136)	4.3	(0-30)	SW846 8260B
Bromobenzene	100	(76 - 115)			SW846 8260B
	94	(76 - 115)	6.7	(0-30)	SW846 8260B
Carbon disulfide	107	(62 - 142)			SW846 8260B
	101	(62 - 142)	5.9	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	98	(82 - 114)			SW846 8260B
	91	(82 - 114)	7.0	(0-30)	SW846 8260B
Bromochloromethane	99	(77 - 120)			SW846 8260B
	92	(77 - 120)	7.8	(0-30)	SW846 8260B
2-Butanone	62	(60 - 126)			SW846 8260B
	61	(60 - 126)	1.2	(0-30)	SW846 8260B
Bromodichloromethane	98	(72 - 121)			SW846 8260B
	90	(72 - 121)	7.9	(0-30)	SW846 8260B
Bromoform	88	(40 - 131)			SW846 8260B
	83	(40 - 131)	5.4	(0-30)	SW846 8260B
Bromomethane	79	(11 - 185)			SW846 8260B
	67	(11 - 185)	17	(0-30)	SW846 8260B
n-Butylbenzene	87	(66 - 125)			SW846 8260B
	85	(66 - 125)	2.1	(0-30)	SW846 8260B
4-Methyl-2-pentanone	66	(63 - 128)			SW846 8260B
	63	(63 - 128)	4.1	(0-30)	SW846 8260B
2-Hexanone	69	(55 - 133)			SW846 8260B
	65	(55 - 133)	5.9	(0-30)	SW846 8260B
sec-Butylbenzene	87	(70 - 117)			SW846 8260B
	85	(70 - 117)	2.2	(0-30)	SW846 8260B
tert-Butylbenzene	89	(71 - 115)			SW846 8260B
	87	(71 - 115)	2.3	(0-30)	SW846 8260B
Xylenes (total)	103	(83 - 112)			SW846 8260B
	96	(83 - 112)	7.4	(0-30)	SW846 8260B
Carbon tetrachloride	119	(66 - 128)			SW846 8260B
	116	(66 - 128)	2.4	(0-30)	SW846 8260B
Chlorobenzene	99	(85 - 110)			SW846 8260B
	91	(85 - 110)	8.8	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA5761AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L100000-198 MA5761AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromochloromethane	97	(64 - 119)			SW846 8260B
	91	(64 - 119)	6.8	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	122	(74 - 151)			SW846 8260B
	137	(74 - 151)	12	(0-30)	SW846 8260B
Methyl acetate	65	(58 - 131)			SW846 8260B
	60	(58 - 131)	7.1	(0-30)	SW846 8260B
Chloroethane	72	(25 - 153)			SW846 8260B
	65	(25 - 153)	9.8	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	65	(52 - 144)			SW846 8260B
	63	(52 - 144)	3.8	(0-30)	SW846 8260B
Cyclohexane	89	(54 - 121)			SW846 8260B
	100	(54 - 121)	12	(0-30)	SW846 8260B
Methylcyclohexane	85	(56 - 127)			SW846 8260B
	103	(56 - 127)	19	(0-30)	SW846 8260B
Chloroform	96	(79 - 117)			SW846 8260B
	89	(79 - 117)	8.0	(0-30)	SW846 8260B
Chloromethane	71	(44 - 126)			SW846 8260B
	67	(44 - 126)	6.6	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	69	(42 - 136)			SW846 8260B
	65	(42 - 136)	5.9	(0-30)	SW846 8260B
2-Chlorotoluene	101	(76 - 116)			SW846 8260B
	96	(76 - 116)	4.8	(0-30)	SW846 8260B
Methyl tert-butyl ether	65	(52 - 144)			SW846 8260B
	63	(52 - 144)	3.8	(0-30)	SW846 8260B
n-Hexane	95	(66 - 137)			SW846 8260B
	125	(66 - 137)	28	(0-30)	SW846 8260B
4-Chlorotoluene	101	(77 - 115)			SW846 8260B
	97	(77 - 115)	4.2	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	60	(52 - 131)			SW846 8260B
	57	(52 - 131)	5.8	(0-30)	SW846 8260B
1,2-Dibromoethane	87	(79 - 113)			SW846 8260B
	81	(79 - 113)	7.1	(0-30)	SW846 8260B
Vinyl acetate	96	(46 - 161)			SW846 8260B
	86	(46 - 161)	10	(0-30)	SW846 8260B
Dibromomethane	97	(81 - 120)			SW846 8260B
	88	(81 - 120)	9.3	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA5761AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L100000-198 MA5761AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichlorobenzene	96	(81 - 110)			SW846 8260B
	90	(81 - 110)	6.2	(0-30)	SW846 8260B
1,3-Dichlorobenzene	96	(80 - 110)			SW846 8260B
	90	(80 - 110)	6.2	(0-30)	SW846 8260B
1,4-Dichlorobenzene	94	(82 - 110)			SW846 8260B
	88	(82 - 110)	6.7	(0-30)	SW846 8260B
Iodomethane	125	(72 - 141)			SW846 8260B
	116	(72 - 141)	7.5	(0-30)	SW846 8260B
Isopropyl ether	130 a	(77 - 118)			SW846 8260B
	125 a	(77 - 118)	4.1	(0-30)	SW846 8260B
Dichlorodifluoromethane	85	(19 - 129)			SW846 8260B
	95	(19 - 129)	11	(0-30)	SW846 8260B
1,1-Dichloroethane	87	(82 - 115)			SW846 8260B
	81 a	(82 - 115)	6.8	(0-30)	SW846 8260B
1,2-Dichloroethane	92	(71 - 127)			SW846 8260B
	85	(71 - 127)	8.7	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	98	(80 - 113)			SW846 8260B
	92	(80 - 113)	7.0	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	98	(83 - 117)			SW846 8260B
	91	(83 - 117)	7.1	(0-30)	SW846 8260B
1,1-Dichloroethene	95	(78 - 131)			SW846 8260B
	93	(78 - 131)	2.4	(0-30)	SW846 8260B
1,2-Dichloropropane	87	(81 - 115)			SW846 8260B
	80 a	(81 - 115)	8.0	(0-30)	SW846 8260B
1,3-Dichloropropane	89	(79 - 116)			SW846 8260B
	83	(79 - 116)	7.2	(0-30)	SW846 8260B
2,2-Dichloropropane	78	(50 - 129)			SW846 8260B
	74	(50 - 129)	5.4	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	83	(61 - 115)			SW846 8260B
	77	(61 - 115)	6.5	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	87	(58 - 117)			SW846 8260B
	80	(58 - 117)	8.5	(0-30)	SW846 8260B
1,1-Dichloropropene	97	(83 - 114)			SW846 8260B
	94	(83 - 114)	2.6	(0-30)	SW846 8260B
Ethylbenzene	102	(83 - 112)			SW846 8260B
	94	(83 - 112)	7.9	(0-30)	SW846 8260B
Hexachlorobutadiene	89	(36 - 134)			SW846 8260B
	88	(36 - 134)	1.3	(0-30)	SW846 8260B
Isopropylbenzene	88	(75 - 114)			SW846 8260B
	85	(75 - 114)	4.2	(0-30)	SW846 8260B
p-Isopropyltoluene	90	(74 - 120)			SW846 8260B
	88	(74 - 120)	2.3	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA5761AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L100000-198 MA5761AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methylene chloride	88	(66 - 131)			SW846 8260B
	81	(66 - 131)	8.5	(0-30)	SW846 8260B
Naphthalene	53	(32 - 141)			SW846 8260B
	54	(32 - 141)	2.4	(0-30)	SW846 8260B
n-Propylbenzene	105	(74 - 121)			SW846 8260B
	102	(74 - 121)	3.3	(0-30)	SW846 8260B
Styrene	95	(79 - 114)			SW846 8260B
	88	(79 - 114)	7.9	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	97	(72 - 116)			SW846 8260B
	89	(72 - 116)	8.3	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	76	(68 - 118)			SW846 8260B
	75	(68 - 118)	1.6	(0-30)	SW846 8260B
Tetrachloroethene	108	(79 - 114)			SW846 8260B
	103	(79 - 114)	4.6	(0-30)	SW846 8260B
Toluene	102	(84 - 111)			SW846 8260B
	95	(84 - 111)	7.3	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	77	(54 - 126)			SW846 8260B
	77	(54 - 126)	0.27	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	82	(48 - 135)			SW846 8260B
	80	(48 - 135)	1.4	(0-30)	SW846 8260B
1,1,1-Trichloroethane	93	(74 - 118)			SW846 8260B
	90	(74 - 118)	2.3	(0-30)	SW846 8260B
1,1,2-Trichloroethane	93	(80 - 112)			SW846 8260B
	87	(80 - 112)	6.8	(0-30)	SW846 8260B
Trichloroethene	106	(76 - 117)			SW846 8260B
	98	(76 - 117)	7.0	(0-20)	SW846 8260B
Trichlorofluoromethane	116	(49 - 157)			SW846 8260B
	123	(49 - 157)	6.2	(0-30)	SW846 8260B
1,2,3-Trichloropropane	79	(73 - 129)			SW846 8260B
	79	(73 - 129)	0.070	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	93	(76 - 120)			SW846 8260B
	89	(76 - 120)	4.4	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	90	(72 - 118)			SW846 8260B
	88	(72 - 118)	2.6	(0-30)	SW846 8260B
Vinyl chloride	79	(53 - 127)			SW846 8260B
	78	(53 - 127)	1.4	(0-30)	SW846 8260B
m-Xylene & p-Xylene	104	(83 - 113)			SW846 8260B
	97	(83 - 113)	7.1	(0-30)	SW846 8260B
o-Xylene	102	(83 - 113)			SW846 8260B
	94	(83 - 113)	8.1	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA5761AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L100000-198 MA5761AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	100	(75 - 121)
	96	(75 - 121)
1,2-Dichloroethane-d4	93	(63 - 129)
	89	(63 - 129)
Toluene-d8	104	(74 - 115)
	99	(74 - 115)
4-Bromofluorobenzene	99	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA5761AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L100000-198 MA5761AD-LCSD
 Prep Date.....: 12/09/10 Analysis Date...: 12/09/10
 Prep Batch #...: 0344198
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	10	9.5	ug/L	95		SW846 8260B
	10	8.8	ug/L	88	7.3	SW846 8260B
Acetone	20	11	ug/L	56		SW846 8260B
	20	11	ug/L	53	4.3	SW846 8260B
Bromobenzene	10	10	ug/L	100		SW846 8260B
	10	9.4	ug/L	94	6.7	SW846 8260B
Carbon disulfide	10	11	ug/L	107		SW846 8260B
	10	10	ug/L	101	5.9	SW846 8260B
1,2-Dichloroethene (total)	20	20	ug/L	98		SW846 8260B
	20	18	ug/L	91	7.0	SW846 8260B
Bromochloromethane	10	9.9	ug/L	99		SW846 8260B
	10	9.2	ug/L	92	7.8	SW846 8260B
2-Butanone	20	12	ug/L	62		SW846 8260B
	20	12	ug/L	61	1.2	SW846 8260B
Bromodichloromethane	10	9.8	ug/L	98		SW846 8260B
	10	9.0	ug/L	90	7.9	SW846 8260B
Bromoform	10	8.8	ug/L	88		SW846 8260B
	10	8.3	ug/L	83	5.4	SW846 8260B
Bromomethane	10	7.9	ug/L	79		SW846 8260B
	10	6.7	ug/L	67	17	SW846 8260B
n-Butylbenzene	10	8.7	ug/L	87		SW846 8260B
	10	8.5	ug/L	85	2.1	SW846 8260B
4-Methyl-2-pentanone	20	13	ug/L	66		SW846 8260B
	20	13	ug/L	63	4.1	SW846 8260B
2-Hexanone	20	14	ug/L	69		SW846 8260B
	20	13	ug/L	65	5.9	SW846 8260B
sec-Butylbenzene	10	8.7	ug/L	87		SW846 8260B
	10	8.5	ug/L	85	2.2	SW846 8260B
tert-Butylbenzene	10	8.9	ug/L	89		SW846 8260B
	10	8.7	ug/L	87	2.3	SW846 8260B
Xylenes (total)	30	31	ug/L	103		SW846 8260B
	30	29	ug/L	96	7.4	SW846 8260B
Carbon tetrachloride	10	12	ug/L	119		SW846 8260B
	10	12	ug/L	116	2.4	SW846 8260B
Chlorobenzene	10	9.9	ug/L	99		SW846 8260B
	10	9.1	ug/L	91	8.8	SW846 8260B

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GC/MS Volatiles

	SPIKE	MEASURED		PERCENT			
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	RPD	METHOD	
Dibromochloromethane	10	9.7	ug/L	97		SW846	8260B
	10	9.1	ug/L	91	6.8	SW846	8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	12	ug/L	122		SW846	8260B
	10	14	ug/L	137	12	SW846	8260B
Methyl acetate	10	6.5	ug/L	65		SW846	8260B
	10	6.0	ug/L	60	7.1	SW846	8260B
Chloroethane	10	7.2	ug/L	72		SW846	8260B
	10	6.5	ug/L	65	9.8	SW846	8260B
Methyl tert-butyl ether (MTBE)	10	6.5	ug/L	65		SW846	8260B
	10	6.3	ug/L	63	3.8	SW846	8260B
Cyclohexane	10	8.9	ug/L	89		SW846	8260B
	10	10	ug/L	100	12	SW846	8260B
Methylcyclohexane	10	8.5	ug/L	85		SW846	8260B
	10	10	ug/L	103	19	SW846	8260B
Chloroform	10	9.6	ug/L	96		SW846	8260B
	10	8.9	ug/L	89	8.0	SW846	8260B
Chloromethane	10	7.1	ug/L	71		SW846	8260B
	10	6.7	ug/L	67	6.6	SW846	8260B
1,2-Dibromo-3-chloro- propane	10	6.9	ug/L	69		SW846	8260B
	10	6.5	ug/L	65	5.9	SW846	8260B
2-Chlorotoluene	10	10	ug/L	101		SW846	8260B
	10	9.6	ug/L	96	4.8	SW846	8260B
Methyl tert-butyl ether	10	6.5	ug/L	65		SW846	8260B
	10	6.3	ug/L	63	3.8	SW846	8260B
n-Hexane	10	9.5	ug/L	95		SW846	8260B
	10	13	ug/L	125	28	SW846	8260B
4-Chlorotoluene	10	10	ug/L	101		SW846	8260B
	10	9.7	ug/L	97	4.2	SW846	8260B
2-Chloroethyl vinyl ether	10	6.0	ug/L	60		SW846	8260B
	10	5.7	ug/L	57	5.8	SW846	8260B
1,2-Dibromoethane	10	8.7	ug/L	87		SW846	8260B
	10	8.1	ug/L	81	7.1	SW846	8260B
Vinyl acetate	10	9.6	ug/L	96		SW846	8260B
	10	8.6	ug/L	86	10	SW846	8260B
Dibromomethane	10	9.7	ug/L	97		SW846	8260B
	10	8.8	ug/L	88	9.3	SW846	8260B

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GC/MS Volatiles

	SPIKE	MEASURED		PERCENT		
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
1,2-Dichlorobenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.0	ug/L	90	6.2	SW846 8260B
1,3-Dichlorobenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.0	ug/L	90	6.2	SW846 8260B
1,4-Dichlorobenzene	10	9.4	ug/L	94		SW846 8260B
	10	8.8	ug/L	88	6.7	SW846 8260B
Iodomethane	10	13	ug/L	125		SW846 8260B
	10	12	ug/L	116	7.5	SW846 8260B
Isopropyl ether	10	13 a	ug/L	130		SW846 8260B
	10	12 a	ug/L	125	4.1	SW846 8260B
Dichlorodifluoromethane	10	8.5	ug/L	85		SW846 8260B
	10	9.5	ug/L	95	11	SW846 8260B
1,1-Dichloroethane	10	8.7	ug/L	87		SW846 8260B
	10	8.1 a	ug/L	81	6.8	SW846 8260B
1,2-Dichloroethane	10	9.2	ug/L	92		SW846 8260B
	10	8.5	ug/L	85	8.7	SW846 8260B
cis-1,2-Dichloroethene	10	9.8	ug/L	98		SW846 8260B
	10	9.2	ug/L	92	7.0	SW846 8260B
trans-1,2-Dichloroethene	10	9.8	ug/L	98		SW846 8260B
	10	9.1	ug/L	91	7.1	SW846 8260B
1,1-Dichloroethene	10	9.5	ug/L	95		SW846 8260B
	10	9.3	ug/L	93	2.4	SW846 8260B
1,2-Dichloropropane	10	8.7	ug/L	87		SW846 8260B
	10	8.0 a	ug/L	80	8.0	SW846 8260B
1,3-Dichloropropane	10	8.9	ug/L	89		SW846 8260B
	10	8.3	ug/L	83	7.2	SW846 8260B
2,2-Dichloropropane	10	7.8	ug/L	78		SW846 8260B
	10	7.4	ug/L	74	5.4	SW846 8260B
cis-1,3-Dichloropropene	10	8.3	ug/L	83		SW846 8260B
	10	7.7	ug/L	77	6.5	SW846 8260B
trans-1,3-Dichloropropene	10	8.7	ug/L	87		SW846 8260B
	10	8.0	ug/L	80	8.5	SW846 8260B
1,1-Dichloropropene	10	9.7	ug/L	97		SW846 8260B
	10	9.4	ug/L	94	2.6	SW846 8260B
Ethylbenzene	10	10	ug/L	102		SW846 8260B
	10	9.4	ug/L	94	7.9	SW846 8260B
Hexachlorobutadiene	10	8.9	ug/L	89		SW846 8260B
	10	8.8	ug/L	88	1.3	SW846 8260B
Isopropylbenzene	10	8.8	ug/L	88		SW846 8260B
	10	8.5	ug/L	85	4.2	SW846 8260B
p-Isopropyltoluene	10	9.0	ug/L	90		SW846 8260B
	10	8.8	ug/L	88	2.3	SW846 8260B

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GC/MS Volatiles

	SPIKE	MEASURED		PERCENT			
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	RPD	METHOD	
Methylene chloride	10	8.8	ug/L	88		SW846	8260B
	10	8.1	ug/L	81	8.5	SW846	8260B
Naphthalene	10	5.3	ug/L	53		SW846	8260B
	10	5.4	ug/L	54	2.4	SW846	8260B
n-Propylbenzene	10	11	ug/L	105		SW846	8260B
	10	10	ug/L	102	3.3	SW846	8260B
Styrene	10	9.5	ug/L	95		SW846	8260B
	10	8.8	ug/L	88	7.9	SW846	8260B
1,1,1,2-Tetrachloroethane	10	9.7	ug/L	97		SW846	8260B
	10	8.9	ug/L	89	8.3	SW846	8260B
1,1,2,2-Tetrachloroethane	10	7.6	ug/L	76		SW846	8260B
	10	7.5	ug/L	75	1.6	SW846	8260B
Tetrachloroethene	10	11	ug/L	108		SW846	8260B
	10	10	ug/L	103	4.6	SW846	8260B
Toluene	10	10	ug/L	102		SW846	8260B
	10	9.5	ug/L	95	7.3	SW846	8260B
1,2,3-Trichlorobenzene	10	7.7	ug/L	77		SW846	8260B
	10	7.7	ug/L	77	0.27	SW846	8260B
1,2,4-Trichloro- benzene	10	8.2	ug/L	82		SW846	8260B
	10	8.0	ug/L	80	1.4	SW846	8260B
1,1,1-Trichloroethane	10	9.3	ug/L	93		SW846	8260B
	10	9.0	ug/L	90	2.3	SW846	8260B
1,1,2-Trichloroethane	10	9.3	ug/L	93		SW846	8260B
	10	8.7	ug/L	87	6.8	SW846	8260B
Trichloroethene	10	11	ug/L	106		SW846	8260B
	10	9.8	ug/L	98	7.0	SW846	8260B
Trichlorofluoromethane	10	12	ug/L	116		SW846	8260B
	10	12	ug/L	123	6.2	SW846	8260B
1,2,3-Trichloropropane	10	7.9	ug/L	79		SW846	8260B
	10	7.9	ug/L	79	0.070	SW846	8260B
1,2,4-Trimethylbenzene	10	9.3	ug/L	93		SW846	8260B
	10	8.9	ug/L	89	4.4	SW846	8260B
1,3,5-Trimethylbenzene	10	9.0	ug/L	90		SW846	8260B
	10	8.8	ug/L	88	2.6	SW846	8260B
Vinyl chloride	10	7.9	ug/L	79		SW846	8260B
	10	7.8	ug/L	78	1.4	SW846	8260B
m-Xylene & p-Xylene	20	21	ug/L	104		SW846	8260B
	20	19	ug/L	97	7.1	SW846	8260B
o-Xylene	10	10	ug/L	102		SW846	8260B
	10	9.4	ug/L	94	8.1	SW846	8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MA5761AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L100000-198 MA5761AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	100	(75 - 121)
	96	(75 - 121)
1,2-Dichloroethane-d4	93	(63 - 129)
	89	(63 - 129)
Toluene-d8	104	(74 - 115)
	99	(74 - 115)
4-Bromofluorobenzene	99	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
 MS Lot-Sample #: A0L030404-001 MAR701C9-MSD
 Date Sampled...: 12/02/10 10:45 Date Received...: 12/03/10
 Prep Date.....: 12/07/10 Analysis Date...: 12/07/10
 Prep Batch #...: 0342122
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	81	(72 - 121)			SW846 8260B
	84	(72 - 121)	3.3	(0-30)	SW846 8260B
Bromobenzene	95	(71 - 116)			SW846 8260B
	95	(71 - 116)	0.25	(0-30)	SW846 8260B
Acetone	102	(33 - 145)			SW846 8260B
	104	(33 - 145)	2.4	(0-30)	SW846 8260B
Carbon disulfide	65	(57 - 147)			SW846 8260B
	86	(57 - 147)	28	(0-30)	SW846 8260B
Bromochloromethane	93	(73 - 121)			SW846 8260B
	95	(73 - 121)	2.8	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	77	(75 - 119)			SW846 8260B
	80	(75 - 119)	3.6	(0-30)	SW846 8260B
Bromodichloromethane	105	(67 - 120)			SW846 8260B
	105	(67 - 120)	0.36	(0-30)	SW846 8260B
2-Butanone	110	(54 - 129)			SW846 8260B
	113	(54 - 129)	2.6	(0-30)	SW846 8260B
Bromoform	102	(32 - 128)			SW846 8260B
	101	(32 - 128)	1.0	(0-30)	SW846 8260B
Bromomethane	14	(10 - 186)			SW846 8260B
	46 p	(10 - 186)	105	(0-30)	SW846 8260B
n-Butylbenzene	82	(56 - 127)			SW846 8260B
	88	(56 - 127)	7.0	(0-30)	SW846 8260B
4-Methyl-2-pentanone	113	(56 - 131)			SW846 8260B
	109	(56 - 131)	3.6	(0-30)	SW846 8260B
sec-Butylbenzene	86	(60 - 119)			SW846 8260B
	90	(60 - 119)	4.4	(0-30)	SW846 8260B
2-Hexanone	111	(47 - 139)			SW846 8260B
	107	(47 - 139)	3.5	(0-30)	SW846 8260B
tert-Butylbenzene	86	(61 - 119)			SW846 8260B
	99	(61 - 119)	15	(0-30)	SW846 8260B
Carbon tetrachloride	103	(59 - 129)			SW846 8260B
	112	(59 - 129)	7.8	(0-30)	SW846 8260B
Xylenes (total)	87	(76 - 116)			SW846 8260B
	89	(76 - 116)	2.8	(0-30)	SW846 8260B
Chlorobenzene	87	(80 - 110)			SW846 8260B
	89	(80 - 110)	2.0	(0-30)	SW846 8260B
Dibromochloromethane	97	(56 - 118)			SW846 8260B
	98	(56 - 118)	0.34	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
MS Lot-Sample #: A0L030404-001 MAR701C9-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	96	(70 - 152)			SW846 8260B
	103	(70 - 152)	6.7	(0-30)	SW846 8260B
Methyl acetate	81	(47 - 130)			SW846 8260B
	80	(47 - 130)	1.7	(0-30)	SW846 8260B
Chloroethane	21	(21 - 165)			SW846 8260B
	63 p	(21 - 165)	99	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	93	(46 - 144)			SW846 8260B
	98	(46 - 144)	5.1	(0-30)	SW846 8260B
Cyclohexane	78	(49 - 123)			SW846 8260B
	82	(49 - 123)	5.7	(0-30)	SW846 8260B
Methylcyclohexane	85	(49 - 127)			SW846 8260B
	91	(49 - 127)	5.9	(0-30)	SW846 8260B
Chloroform	91	(76 - 118)			SW846 8260B
	92	(76 - 118)	1.5	(0-30)	SW846 8260B
Chloromethane	43	(33 - 132)			SW846 8260B
	51	(33 - 132)	18	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	100	(32 - 139)			SW846 8260B
	110	(32 - 139)	9.5	(0-30)	SW846 8260B
2-Chlorotoluene	84	(69 - 117)			SW846 8260B
	84	(69 - 117)	0.58	(0-30)	SW846 8260B
Methyl tert-butyl ether	93	(46 - 144)			SW846 8260B
	98	(46 - 144)	5.1	(0-30)	SW846 8260B
n-Hexane	95	(54 - 138)			SW846 8260B
	101	(54 - 138)	6.0	(0-30)	SW846 8260B
4-Chlorotoluene	86	(71 - 116)			SW846 8260B
	89	(71 - 116)	3.1	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	14 p	(10 - 150)	200	(0-30)	SW846 8260B
1,2-Dibromoethane	104	(74 - 113)			SW846 8260B
	106	(74 - 113)	2.4	(0-30)	SW846 8260B
Vinyl acetate	130	(43 - 157)			SW846 8260B
	124	(43 - 157)	5.1	(0-30)	SW846 8260B
Dibromomethane	105	(77 - 121)			SW846 8260B
	107	(77 - 121)	1.4	(0-30)	SW846 8260B
1,2-Dichlorobenzene	85	(75 - 111)			SW846 8260B
	95	(75 - 111)	11	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
MS Lot-Sample #: A0L030404-001 MAR701C9-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	83	(73 - 110)			SW846 8260B
	87	(73 - 110)	5.1	(0-30)	SW846 8260B
1,4-Dichlorobenzene	84	(75 - 110)			SW846 8260B
	89	(75 - 110)	6.0	(0-30)	SW846 8260B
Iodomethane	62 a	(66 - 144)			SW846 8260B
	107 p	(66 - 144)	54	(0-30)	SW846 8260B
Isopropyl ether	72 a	(73 - 118)			SW846 8260B
	75	(73 - 118)	4.1	(0-30)	SW846 8260B
Dichlorodifluoromethane	75	(17 - 128)			SW846 8260B
	78	(17 - 128)	4.1	(0-30)	SW846 8260B
1,1-Dichloroethane	80	(79 - 116)			SW846 8260B
	84	(79 - 116)	4.2	(0-30)	SW846 8260B
1,2-Dichloroethane	111	(68 - 129)			SW846 8260B
	111	(68 - 129)	0.23	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	78	(70 - 120)			SW846 8260B
	81	(70 - 120)	3.9	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	77 a	(80 - 119)			SW846 8260B
	79 a	(80 - 119)	3.4	(0-30)	SW846 8260B
1,1-Dichloroethene	75	(74 - 135)			SW846 8260B
	82	(74 - 135)	9.0	(0-30)	SW846 8260B
1,2-Dichloropropane	89	(78 - 115)			SW846 8260B
	88	(78 - 115)	0.97	(0-30)	SW846 8260B
1,3-Dichloropropane	92	(74 - 118)			SW846 8260B
	91	(74 - 118)	1.1	(0-30)	SW846 8260B
2,2-Dichloropropane	71	(38 - 127)			SW846 8260B
	85	(38 - 127)	17	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	89	(51 - 110)			SW846 8260B
	89	(51 - 110)	0.60	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	96	(46 - 116)			SW846 8260B
	95	(46 - 116)	0.48	(0-30)	SW846 8260B
1,1-Dichloropropene	89	(80 - 114)			SW846 8260B
	94	(80 - 114)	4.4	(0-30)	SW846 8260B
Ethylbenzene	84	(75 - 116)			SW846 8260B
	89	(75 - 116)	5.2	(0-30)	SW846 8260B
Hexachlorobutadiene	82	(27 - 132)			SW846 8260B
	106	(27 - 132)	25	(0-30)	SW846 8260B
Isopropylbenzene	84	(68 - 116)			SW846 8260B
	90	(68 - 116)	6.8	(0-30)	SW846 8260B
p-Isopropyltoluene	90	(64 - 122)			SW846 8260B
	96	(64 - 122)	6.5	(0-30)	SW846 8260B
Methylene chloride	58 a	(63 - 128)			SW846 8260B
	66	(63 - 128)	12	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
MS Lot-Sample #: A0L030404-001 MAR701C9-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	99	(15 - 158)			SW846 8260B
	116	(15 - 158)	14	(0-30)	SW846 8260B
n-Propylbenzene	94	(64 - 124)			SW846 8260B
	92	(64 - 124)	2.0	(0-30)	SW846 8260B
Styrene	92	(71 - 117)			SW846 8260B
	96	(71 - 117)	4.9	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	88	(64 - 118)			SW846 8260B
	94	(64 - 118)	6.8	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	83	(63 - 122)			SW846 8260B
	82	(63 - 122)	0.47	(0-30)	SW846 8260B
Tetrachloroethene	99	(70 - 117)			SW846 8260B
	99	(70 - 117)	0.86	(0-30)	SW846 8260B
Toluene	83	(78 - 114)			SW846 8260B
	88	(78 - 114)	5.8	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	94	(45 - 129)			SW846 8260B
	113	(45 - 129)	18	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	92	(38 - 138)			SW846 8260B
	107	(38 - 138)	15	(0-30)	SW846 8260B
1,1,1-Trichloroethane	90	(68 - 121)			SW846 8260B
	101	(68 - 121)	12	(0-30)	SW846 8260B
1,1,2-Trichloroethane	95	(75 - 115)			SW846 8260B
	98	(75 - 115)	3.6	(0-30)	SW846 8260B
Trichloroethene	99	(66 - 120)			SW846 8260B
	102	(66 - 120)	3.3	(0-30)	SW846 8260B
Trichlorofluoromethane	82	(46 - 157)			SW846 8260B
	120 p	(46 - 157)	38	(0-30)	SW846 8260B
1,2,3-Trichloropropane	96	(67 - 132)			SW846 8260B
	104	(67 - 132)	8.6	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	86	(67 - 124)			SW846 8260B
	91	(67 - 124)	5.6	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	88	(63 - 121)			SW846 8260B
	92	(63 - 121)	4.0	(0-30)	SW846 8260B
Vinyl chloride	77	(49 - 130)			SW846 8260B
	92	(49 - 130)	18	(0-30)	SW846 8260B
m-Xylene & p-Xylene	88	(75 - 117)			SW846 8260B
	89	(75 - 117)	1.8	(0-30)	SW846 8260B
o-Xylene	85	(76 - 116)			SW846 8260B
	89	(76 - 116)	5.0	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
MS Lot-Sample #: A0L030404-001 MAR701C9-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	100	(75 - 121)
	100	(75 - 121)
1,2-Dichloroethane-d4	120	(63 - 129)
	118	(63 - 129)
Toluene-d8	94	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)
	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
 MS Lot-Sample #: A0L030404-001 MAR701C9-MSD
 Date Sampled...: 12/02/10 10:45 Date Received...: 12/03/10
 Prep Date.....: 12/07/10 Analysis Date...: 12/07/10
 Prep Batch #...: 0342122
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	8.4	ug/L	84	3.3	SW846 8260B
Bromobenzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.5	ug/L	95	0.25	SW846 8260B
Acetone	ND	20	20	ug/L	102		SW846 8260B
	ND	20	21	ug/L	104	2.4	SW846 8260B
Carbon disulfide	ND	10	6.5	ug/L	65		SW846 8260B
	ND	10	8.6	ug/L	86	28	SW846 8260B
Bromochloromethane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.5	ug/L	95	2.8	SW846 8260B
1,2-Dichloroethene (total)	ND	20	15	ug/L	77		SW846 8260B
	ND	20	16	ug/L	80	3.6	SW846 8260B
Bromodichloromethane	ND	10	11	ug/L	105		SW846 8260B
	ND	10	10	ug/L	105	0.36	SW846 8260B
2-Butanone	ND	20	22	ug/L	110		SW846 8260B
	ND	20	23	ug/L	113	2.6	SW846 8260B
Bromoform	ND	10	10	ug/L	102		SW846 8260B
	ND	10	10	ug/L	101	1.0	SW846 8260B
Bromomethane	ND	10	1.4	ug/L	14		SW846 8260B
	ND	10	4.6	ug/L	46 p	105	SW846 8260B
n-Butylbenzene	ND	10	8.2	ug/L	82		SW846 8260B
	ND	10	8.8	ug/L	88	7.0	SW846 8260B
4-Methyl-2-pentanone	ND	20	23	ug/L	113		SW846 8260B
	ND	20	22	ug/L	109	3.6	SW846 8260B
sec-Butylbenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.0	ug/L	90	4.4	SW846 8260B
2-Hexanone	ND	20	22	ug/L	111		SW846 8260B
	ND	20	21	ug/L	107	3.5	SW846 8260B
tert-Butylbenzene	ND	10	8.7	ug/L	86		SW846 8260B
	ND	10	10	ug/L	99	15	SW846 8260B
Carbon tetrachloride	ND	10	10	ug/L	103		SW846 8260B
	ND	10	11	ug/L	112	7.8	SW846 8260B
Xylenes (total)	ND	30	26	ug/L	87		SW846 8260B
	ND	30	27	ug/L	89	2.8	SW846 8260B
Chlorobenzene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.9	ug/L	89	2.0	SW846 8260B
Dibromochloromethane	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.8	ug/L	98	0.34	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
MS Lot-Sample #: A0L030404-001 MAR701C9-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	103	6.7	SW846 8260B
Methyl acetate	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	8.0	ug/L	80	1.7	SW846 8260B
Chloroethane	ND	10	2.1	ug/L	21		SW846 8260B
	ND	10	6.3	ug/L	63 p	99	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.8	ug/L	98	5.1	SW846 8260B
Cyclohexane	ND	10	7.8	ug/L	78		SW846 8260B
	ND	10	8.2	ug/L	82	5.7	SW846 8260B
Methylcyclohexane	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	9.1	ug/L	91	5.9	SW846 8260B
Chloroform	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.2	ug/L	92	1.5	SW846 8260B
Chloromethane	ND	10	4.3	ug/L	43		SW846 8260B
	ND	10	5.1	ug/L	51	18	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	10	ug/L	100		SW846 8260B
	ND	10	11	ug/L	110	9.5	SW846 8260B
2-Chlorotoluene	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.4	ug/L	84	0.58	SW846 8260B
Methyl tert-butyl ether	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.8	ug/L	98	5.1	SW846 8260B
n-Hexane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	101	6.0	SW846 8260B
4-Chlorotoluene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.9	ug/L	89	3.1	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	0.0	ug/L	0.0 a		SW846 8260B
	ND	10	1.4	ug/L	14 p	200	SW846 8260B
1,2-Dibromoethane	ND	10	10	ug/L	104		SW846 8260B
	ND	10	11	ug/L	106	2.4	SW846 8260B
Vinyl acetate	ND	10	13	ug/L	130		SW846 8260B
	ND	10	12	ug/L	124	5.1	SW846 8260B
Dibromomethane	ND	10	11	ug/L	105		SW846 8260B
	ND	10	11	ug/L	107	1.4	SW846 8260B
1,2-Dichlorobenzene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	9.5	ug/L	95	11	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
MS Lot-Sample #: A0L030404-001 MAR701C9-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,3-Dichlorobenzene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.7	ug/L	87	5.1	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.9	ug/L	89	6.0	SW846 8260B
Iodomethane	ND	10	6.2	ug/L	62 a		SW846 8260B
	ND	10	11	ug/L	107 p	54	SW846 8260B
Isopropyl ether	ND	10	7.2	ug/L	72 a		SW846 8260B
	ND	10	7.5	ug/L	75	4.1	SW846 8260B
Dichlorodifluoromethane	ND	10	7.5	ug/L	75		SW846 8260B
	ND	10	7.8	ug/L	78	4.1	SW846 8260B
1,1-Dichloroethane	ND	10	8.0	ug/L	80		SW846 8260B
	ND	10	8.4	ug/L	84	4.2	SW846 8260B
1,2-Dichloroethane	ND	10	11	ug/L	111		SW846 8260B
	ND	10	11	ug/L	111	0.23	SW846 8260B
cis-1,2-Dichloroethene	ND	10	7.8	ug/L	78		SW846 8260B
	ND	10	8.1	ug/L	81	3.9	SW846 8260B
trans-1,2-Dichloroethene	ND	10	7.7	ug/L	77 a		SW846 8260B
	ND	10	7.9	ug/L	79 a	3.4	SW846 8260B
1,1-Dichloroethene	ND	10	7.5	ug/L	75		SW846 8260B
	ND	10	8.2	ug/L	82	9.0	SW846 8260B
1,2-Dichloropropane	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.8	ug/L	88	0.97	SW846 8260B
1,3-Dichloropropane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.1	ug/L	91	1.1	SW846 8260B
2,2-Dichloropropane	ND	10	7.1	ug/L	71		SW846 8260B
	ND	10	8.5	ug/L	85	17	SW846 8260B
cis-1,3-Dichloropropene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.9	ug/L	89	0.60	SW846 8260B
trans-1,3-Dichloropropene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.5	ug/L	95	0.48	SW846 8260B
1,1-Dichloropropene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.4	ug/L	94	4.4	SW846 8260B
Ethylbenzene	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.9	ug/L	89	5.2	SW846 8260B
Hexachlorobutadiene	ND	10	8.2	ug/L	82		SW846 8260B
	ND	10	11	ug/L	106	25	SW846 8260B
Isopropylbenzene	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	9.0	ug/L	90	6.8	SW846 8260B
p-Isopropyltoluene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.6	ug/L	96	6.5	SW846 8260B
Methylene chloride	ND	10	5.8	ug/L	58 a		SW846 8260B
	ND	10	6.6	ug/L	66	12	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
MS Lot-Sample #: A0L030404-001 MAR701C9-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Naphthalene	1.5	10	11	ug/L	99		SW846 8260B
	1.5	10	13	ug/L	116	14	SW846 8260B
n-Propylbenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.2	ug/L	92	2.0	SW846 8260B
Styrene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.6	ug/L	96	4.9	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.4	ug/L	94	6.8	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.2	ug/L	82	0.47	SW846 8260B
Tetrachloroethene	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.9	ug/L	99	0.86	SW846 8260B
Toluene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.8	ug/L	88	5.8	SW846 8260B
1,2,3-Trichlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	11	ug/L	113	18	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	11	ug/L	107	15	SW846 8260B
1,1,1-Trichloroethane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	10	ug/L	101	12	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.8	ug/L	98	3.6	SW846 8260B
Trichloroethene	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	102	3.3	SW846 8260B
Trichlorofluoromethane	ND	10	8.2	ug/L	82		SW846 8260B
	ND	10	12	ug/L	120 p	38	SW846 8260B
1,2,3-Trichloropropane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	104	8.6	SW846 8260B
1,2,4-Trimethylbenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.1	ug/L	91	5.6	SW846 8260B
1,3,5-Trimethylbenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.2	ug/L	92	4.0	SW846 8260B
Vinyl chloride	ND	10	7.7	ug/L	77		SW846 8260B
	ND	10	9.2	ug/L	92	18	SW846 8260B
m-Xylene & p-Xylene	ND	20	18	ug/L	88		SW846 8260B
	ND	20	18	ug/L	89	1.8	SW846 8260B
o-Xylene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	5.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MAR701C8-MS Matrix.....: WATER
MS Lot-Sample #: A0L030404-001 MAR701C9-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	100	(75 - 121)
	100	(75 - 121)
1,2-Dichloroethane-d4	120	(63 - 129)
	118	(63 - 129)
Toluene-d8	94	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)
	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
 MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD
 Date Sampled...: 12/01/10 10:00 Date Received...: 12/03/10
 Prep Date.....: 12/09/10 Analysis Date...: 12/09/10
 Prep Batch #...: 0344198
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	99	(72 - 121)			SW846 8260B
	92	(72 - 121)	7.6	(0-30)	SW846 8260B
Bromobenzene	103	(71 - 116)			SW846 8260B
	98	(71 - 116)	4.8	(0-30)	SW846 8260B
Acetone	67	(33 - 145)			SW846 8260B
	57	(33 - 145)	16	(0-30)	SW846 8260B
Carbon disulfide	112	(57 - 147)			SW846 8260B
	104	(57 - 147)	7.4	(0-30)	SW846 8260B
Bromochloromethane	106	(73 - 121)			SW846 8260B
	96	(73 - 121)	10	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	102	(75 - 119)			SW846 8260B
	94	(75 - 119)	8.1	(0-30)	SW846 8260B
Bromodichloromethane	101	(67 - 120)			SW846 8260B
	95	(67 - 120)	6.7	(0-30)	SW846 8260B
2-Butanone	71	(54 - 129)			SW846 8260B
	65	(54 - 129)	7.6	(0-30)	SW846 8260B
Bromoform	91	(32 - 128)			SW846 8260B
	87	(32 - 128)	5.3	(0-30)	SW846 8260B
Bromomethane	53	(10 - 186)			SW846 8260B
	55	(10 - 186)	4.5	(0-30)	SW846 8260B
n-Butylbenzene	84	(56 - 127)			SW846 8260B
	84	(56 - 127)	0.44	(0-30)	SW846 8260B
4-Methyl-2-pentanone	71	(56 - 131)			SW846 8260B
	66	(56 - 131)	7.1	(0-30)	SW846 8260B
sec-Butylbenzene	86	(60 - 119)			SW846 8260B
	85	(60 - 119)	0.92	(0-30)	SW846 8260B
2-Hexanone	76	(47 - 139)			SW846 8260B
	66	(47 - 139)	14	(0-30)	SW846 8260B
tert-Butylbenzene	89	(61 - 119)			SW846 8260B
	87	(61 - 119)	2.2	(0-30)	SW846 8260B
Carbon tetrachloride	120	(59 - 129)			SW846 8260B
	117	(59 - 129)	2.4	(0-30)	SW846 8260B
Xylenes (total)	103	(76 - 116)			SW846 8260B
	98	(76 - 116)	5.4	(0-30)	SW846 8260B
Chlorobenzene	101	(80 - 110)			SW846 8260B
	95	(80 - 110)	7.0	(0-30)	SW846 8260B
Dibromochloromethane	103	(56 - 118)			SW846 8260B
	94	(56 - 118)	9.2	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	130	(70 - 152)			SW846 8260B
	123	(70 - 152)	5.4	(0-30)	SW846 8260B
Methyl acetate	61	(47 - 130)			SW846 8260B
	58	(47 - 130)	6.4	(0-30)	SW846 8260B
Chloroethane	66	(21 - 165)			SW846 8260B
	63	(21 - 165)	5.5	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	68	(46 - 144)			SW846 8260B
	64	(46 - 144)	6.0	(0-30)	SW846 8260B
Cyclohexane	92	(49 - 123)			SW846 8260B
	89	(49 - 123)	3.8	(0-30)	SW846 8260B
Methylcyclohexane	85	(49 - 127)			SW846 8260B
	85	(49 - 127)	0.14	(0-30)	SW846 8260B
Chloroform	100	(76 - 118)			SW846 8260B
	94	(76 - 118)	6.6	(0-30)	SW846 8260B
Chloromethane	73	(33 - 132)			SW846 8260B
	67	(33 - 132)	9.7	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	79	(32 - 139)			SW846 8260B
	72	(32 - 139)	9.4	(0-30)	SW846 8260B
2-Chlorotoluene	100	(69 - 117)			SW846 8260B
	99	(69 - 117)	1.1	(0-30)	SW846 8260B
Methyl tert-butyl ether	68	(46 - 144)			SW846 8260B
	64	(46 - 144)	6.0	(0-30)	SW846 8260B
n-Hexane	100	(54 - 138)			SW846 8260B
	98	(54 - 138)	1.7	(0-30)	SW846 8260B
4-Chlorotoluene	102	(71 - 116)			SW846 8260B
	97	(71 - 116)	4.3	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
1,2-Dibromoethane	91	(74 - 113)			SW846 8260B
	85	(74 - 113)	7.7	(0-30)	SW846 8260B
Vinyl acetate	89	(43 - 157)			SW846 8260B
	87	(43 - 157)	2.8	(0-30)	SW846 8260B
Dibromomethane	103	(77 - 121)			SW846 8260B
	92	(77 - 121)	11	(0-30)	SW846 8260B
1,2-Dichlorobenzene	99	(75 - 111)			SW846 8260B
	96	(75 - 111)	3.3	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	98	(73 - 110)			SW846 8260B
	95	(73 - 110)	3.4	(0-30)	SW846 8260B
1,4-Dichlorobenzene	96	(75 - 110)			SW846 8260B
	92	(75 - 110)	4.2	(0-30)	SW846 8260B
Iodomethane	126	(66 - 144)			SW846 8260B
	121	(66 - 144)	4.2	(0-30)	SW846 8260B
Isopropyl ether	129 a	(73 - 118)			SW846 8260B
	125 a	(73 - 118)	3.3	(0-30)	SW846 8260B
Dichlorodifluoromethane	88	(17 - 128)			SW846 8260B
	82	(17 - 128)	6.5	(0-30)	SW846 8260B
1,1-Dichloroethane	90	(79 - 116)			SW846 8260B
	84	(79 - 116)	7.4	(0-30)	SW846 8260B
1,2-Dichloroethane	98	(68 - 129)			SW846 8260B
	91	(68 - 129)	8.1	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	102	(70 - 120)			SW846 8260B
	95	(70 - 120)	7.3	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	102	(80 - 119)			SW846 8260B
	93	(80 - 119)	8.9	(0-30)	SW846 8260B
1,1-Dichloroethene	101	(74 - 135)			SW846 8260B
	94	(74 - 135)	7.4	(0-30)	SW846 8260B
1,2-Dichloropropane	92	(78 - 115)			SW846 8260B
	85	(78 - 115)	7.3	(0-30)	SW846 8260B
1,3-Dichloropropane	93	(74 - 118)			SW846 8260B
	87	(74 - 118)	7.4	(0-30)	SW846 8260B
2,2-Dichloropropane	70	(38 - 127)			SW846 8260B
	71	(38 - 127)	1.4	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	79	(51 - 110)			SW846 8260B
	76	(51 - 110)	4.2	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	85	(46 - 116)			SW846 8260B
	80	(46 - 116)	6.6	(0-30)	SW846 8260B
1,1-Dichloropropene	100	(80 - 114)			SW846 8260B
	96	(80 - 114)	4.1	(0-30)	SW846 8260B
Ethylbenzene	102	(75 - 116)			SW846 8260B
	98	(75 - 116)	4.7	(0-30)	SW846 8260B
Hexachlorobutadiene	85	(27 - 132)			SW846 8260B
	90	(27 - 132)	5.8	(0-30)	SW846 8260B
Isopropylbenzene	88	(68 - 116)			SW846 8260B
	85	(68 - 116)	3.4	(0-30)	SW846 8260B
p-Isopropyltoluene	89	(64 - 122)			SW846 8260B
	88	(64 - 122)	0.73	(0-30)	SW846 8260B
Methylene chloride	91	(63 - 128)			SW846 8260B
	84	(63 - 128)	7.1	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	56	(15 - 158)			SW846 8260B
	56	(15 - 158)	0.03	(0-30)	SW846 8260B
n-Propylbenzene	106	(64 - 124)			SW846 8260B
	101	(64 - 124)	5.0	(0-30)	SW846 8260B
Styrene	96	(71 - 117)			SW846 8260B
	91	(71 - 117)	6.2	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	97	(64 - 118)			SW846 8260B
	92	(64 - 118)	5.6	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	84	(63 - 122)			SW846 8260B
	77	(63 - 122)	7.8	(0-30)	SW846 8260B
Tetrachloroethene	110	(70 - 117)			SW846 8260B
	103	(70 - 117)	6.6	(0-30)	SW846 8260B
Toluene	104	(78 - 114)			SW846 8260B
	98	(78 - 114)	6.1	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	79	(45 - 129)			SW846 8260B
	83	(45 - 129)	5.2	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	83	(38 - 138)			SW846 8260B
	84	(38 - 138)	1.6	(0-30)	SW846 8260B
1,1,1-Trichloroethane	93	(68 - 121)			SW846 8260B
	91	(68 - 121)	2.3	(0-30)	SW846 8260B
1,1,2-Trichloroethane	99	(75 - 115)			SW846 8260B
	92	(75 - 115)	7.2	(0-30)	SW846 8260B
Trichloroethene	109	(66 - 120)			SW846 8260B
	103	(66 - 120)	5.4	(0-30)	SW846 8260B
Trichlorofluoromethane	108	(46 - 157)			SW846 8260B
	111	(46 - 157)	2.9	(0-30)	SW846 8260B
1,2,3-Trichloropropane	87	(67 - 132)			SW846 8260B
	81	(67 - 132)	6.7	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	94	(67 - 124)			SW846 8260B
	91	(67 - 124)	3.0	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	90	(63 - 121)			SW846 8260B
	88	(63 - 121)	2.7	(0-30)	SW846 8260B
Vinyl chloride	87	(49 - 130)			SW846 8260B
	79	(49 - 130)	8.8	(0-30)	SW846 8260B
m-Xylene & p-Xylene	105	(75 - 117)			SW846 8260B
	99	(75 - 117)	6.0	(0-30)	SW846 8260B
o-Xylene	101	(76 - 116)			SW846 8260B
	97	(76 - 116)	4.2	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	106	(75 - 121)
	99	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
	93	(63 - 129)
Toluene-d8	105	(74 - 115)
	101	(74 - 115)
4-Bromofluorobenzene	105	(66 - 117)
	98	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
 MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD
 Date Sampled...: 12/01/10 10:00 Date Received...: 12/03/10
 Prep Date.....: 12/09/10 Analysis Date...: 12/09/10
 Prep Batch #...: 0344198
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

	SAMPLE	SPIKE	MEASRD		PERCNT		
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD
Benzene	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.2	ug/L	92	7.6	SW846 8260B
Bromobenzene	ND	10	10	ug/L	103		SW846 8260B
	ND	10	9.8	ug/L	98	4.8	SW846 8260B
Acetone	ND	20	13	ug/L	67		SW846 8260B
	ND	20	11	ug/L	57	16	SW846 8260B
Carbon disulfide	ND	10	11	ug/L	112		SW846 8260B
	ND	10	10	ug/L	104	7.4	SW846 8260B
Bromochloromethane	ND	10	11	ug/L	106		SW846 8260B
	ND	10	9.6	ug/L	96	10	SW846 8260B
1,2-Dichloroethene (total)	ND	20	20	ug/L	102		SW846 8260B
	ND	20	19	ug/L	94	8.1	SW846 8260B
Bromodichloromethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	9.5	ug/L	95	6.7	SW846 8260B
2-Butanone	ND	20	14	ug/L	71		SW846 8260B
	ND	20	13	ug/L	65	7.6	SW846 8260B
Bromoform	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	8.7	ug/L	87	5.3	SW846 8260B
Bromomethane	ND	10	5.3	ug/L	53		SW846 8260B
	ND	10	5.5	ug/L	55	4.5	SW846 8260B
n-Butylbenzene	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.4	ug/L	84	0.44	SW846 8260B
4-Methyl-2-pentanone	ND	20	14	ug/L	71		SW846 8260B
	ND	20	13	ug/L	66	7.1	SW846 8260B
sec-Butylbenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.5	ug/L	85	0.92	SW846 8260B
2-Hexanone	ND	20	15	ug/L	76		SW846 8260B
	ND	20	13	ug/L	66	14	SW846 8260B
tert-Butylbenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.7	ug/L	87	2.2	SW846 8260B
Carbon tetrachloride	ND	10	12	ug/L	120		SW846 8260B
	ND	10	12	ug/L	117	2.4	SW846 8260B
Xylenes (total)	ND	30	31	ug/L	103		SW846 8260B
	ND	30	29	ug/L	98	5.4	SW846 8260B
Chlorobenzene	ND	10	10	ug/L	101		SW846 8260B
	ND	10	9.5	ug/L	95	7.0	SW846 8260B
Dibromochloromethane	ND	10	10	ug/L	103		SW846 8260B
	ND	10	9.4	ug/L	94	9.2	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
 MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	13	ug/L	130		SW846 8260B
	ND	10	12	ug/L	123	5.4	SW846 8260B
Methyl acetate	ND	10	6.1	ug/L	61		SW846 8260B
	ND	10	5.8	ug/L	58	6.4	SW846 8260B
Chloroethane	ND	10	6.6	ug/L	66		SW846 8260B
	ND	10	6.3	ug/L	63	5.5	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	6.8	ug/L	68		SW846 8260B
	ND	10	6.4	ug/L	64	6.0	SW846 8260B
Cyclohexane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	8.9	ug/L	89	3.8	SW846 8260B
Methylcyclohexane	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.5	ug/L	85	0.14	SW846 8260B
Chloroform	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.4	ug/L	94	6.6	SW846 8260B
Chloromethane	ND	10	7.3	ug/L	73		SW846 8260B
	ND	10	6.7	ug/L	67	9.7	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	7.2	ug/L	72	9.4	SW846 8260B
2-Chlorotoluene	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.9	ug/L	99	1.1	SW846 8260B
Methyl tert-butyl ether	ND	10	6.8	ug/L	68		SW846 8260B
	ND	10	6.4	ug/L	64	6.0	SW846 8260B
n-Hexane	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.8	ug/L	98	1.7	SW846 8260B
4-Chlorotoluene	ND	10	10	ug/L	102		SW846 8260B
	ND	10	9.7	ug/L	97	4.3	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	0.0	ug/L	0.0 a		SW846 8260B
	ND	10	0.0	ug/L	0.0 a	0.0	SW846 8260B
1,2-Dibromoethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	8.5	ug/L	85	7.7	SW846 8260B
Vinyl acetate	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.7	ug/L	87	2.8	SW846 8260B
Dibromomethane	ND	10	10	ug/L	103		SW846 8260B
	ND	10	9.2	ug/L	92	11	SW846 8260B
1,2-Dichlorobenzene	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.6	ug/L	96	3.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,3-Dichlorobenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.5	ug/L	95	3.4	SW846 8260B
1,4-Dichlorobenzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.2	ug/L	92	4.2	SW846 8260B
Iodomethane	ND	10	13	ug/L	126		SW846 8260B
	ND	10	12	ug/L	121	4.2	SW846 8260B
Isopropyl ether	ND	10	13	ug/L	129 a		SW846 8260B
	ND	10	13	ug/L	125 a	3.3	SW846 8260B
Dichlorodifluoromethane	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	8.2	ug/L	82	6.5	SW846 8260B
1,1-Dichloroethane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	8.4	ug/L	84	7.4	SW846 8260B
1,2-Dichloroethane	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.1	ug/L	91	8.1	SW846 8260B
cis-1,2-Dichloroethene	ND	10	10	ug/L	102		SW846 8260B
	ND	10	9.5	ug/L	95	7.3	SW846 8260B
trans-1,2-Dichloroethene	ND	10	10	ug/L	102		SW846 8260B
	ND	10	9.3	ug/L	93	8.9	SW846 8260B
1,1-Dichloroethene	ND	10	10	ug/L	101		SW846 8260B
	ND	10	9.4	ug/L	94	7.4	SW846 8260B
1,2-Dichloropropane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	8.5	ug/L	85	7.3	SW846 8260B
1,3-Dichloropropane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	8.7	ug/L	87	7.4	SW846 8260B
2,2-Dichloropropane	ND	10	7.0	ug/L	70		SW846 8260B
	ND	10	7.1	ug/L	71	1.4	SW846 8260B
cis-1,3-Dichloropropene	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	7.6	ug/L	76	4.2	SW846 8260B
trans-1,3-Dichloropropene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.0	ug/L	80	6.6	SW846 8260B
1,1-Dichloropropene	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.6	ug/L	96	4.1	SW846 8260B
Ethylbenzene	ND	10	10	ug/L	102		SW846 8260B
	ND	10	9.8	ug/L	98	4.7	SW846 8260B
Hexachlorobutadiene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	9.0	ug/L	90	5.8	SW846 8260B
Isopropylbenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	8.5	ug/L	85	3.4	SW846 8260B
p-Isopropyltoluene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.8	ug/L	88	0.73	SW846 8260B
Methylene chloride	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	8.4	ug/L	84	7.1	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Naphthalene	ND	10	5.6	ug/L	56		SW846 8260B
	ND	10	5.6	ug/L	56	0.03	SW846 8260B
n-Propylbenzene	ND	10	11	ug/L	106		SW846 8260B
	ND	10	10	ug/L	101	5.0	SW846 8260B
Styrene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.1	ug/L	91	6.2	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.2	ug/L	92	5.6	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	7.7	ug/L	77	7.8	SW846 8260B
Tetrachloroethene	ND	10	11	ug/L	110		SW846 8260B
	ND	10	10	ug/L	103	6.6	SW846 8260B
Toluene	ND	10	10	ug/L	104		SW846 8260B
	ND	10	9.8	ug/L	98	6.1	SW846 8260B
1,2,3-Trichlorobenzene	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	8.3	ug/L	83	5.2	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.4	ug/L	84	1.6	SW846 8260B
1,1,1-Trichloroethane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.1	ug/L	91	2.3	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.2	ug/L	92	7.2	SW846 8260B
Trichloroethene	ND	10	11	ug/L	109		SW846 8260B
	ND	10	10	ug/L	103	5.4	SW846 8260B
Trichlorofluoromethane	ND	10	11	ug/L	108		SW846 8260B
	ND	10	11	ug/L	111	2.9	SW846 8260B
1,2,3-Trichloropropane	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.1	ug/L	81	6.7	SW846 8260B
1,2,4-Trimethylbenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.1	ug/L	91	3.0	SW846 8260B
1,3,5-Trimethylbenzene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	8.8	ug/L	88	2.7	SW846 8260B
Vinyl chloride	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	7.9	ug/L	79	8.8	SW846 8260B
m-Xylene & p-Xylene	ND	20	21	ug/L	105		SW846 8260B
	ND	20	20	ug/L	99	6.0	SW846 8260B
o-Xylene	ND	10	10	ug/L	101		SW846 8260B
	ND	10	9.7	ug/L	97	4.2	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L030505 Work Order #...: MATQ41AC-MS Matrix.....: WATER
 MS Lot-Sample #: A0L030473-001 MATQ41AD-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	106	(75 - 121)
	99	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
	93	(63 - 129)
Toluene-d8	105	(74 - 115)
	101	(74 - 115)
4-Bromofluorobenzene	105	(66 - 117)
	98	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

END OF REPORT

ANALYTICAL REPORT

REVISED

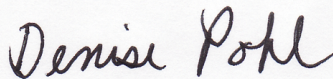
TRW OGV2

Lot #: A0L170577

Paul Jack, ESPM

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TESTAMERICA LABORATORIES, INC.



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March 01, 2011

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CASE NARRATIVE

CASE NARRATIVE

A0L170577

Revised

The following report contains the analytical results for one water sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGV2 Site. The samples were received December 17, 2010, according to documented sample acceptance procedures.

Revised report includes sample id change. Per client sample id MW-3BH@185'20101115 listed on chain of custody should be MW-108 BH@185'20101215.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.2°C.

GC/MS VOLATILES

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA_CWA 032609.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0L170577

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-108 BH@185'20101215 12/15/10 09:15 001				
Dichlorodifluoromethane	2.0	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	1.8	1.0	ug/L	SW846 8260B
Dichlorofluoromethane	33	2.0	ug/L	SW846 8260B
Tetrachloroethene	1.0	1.0	ug/L	SW846 8260B
Toluene	1.6	1.0	ug/L	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	6.4	1.0	ug/L	SW846 8260B
TB-20101215 12/15/10 002				
Methylene chloride	3.3	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0L170577

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0L170577

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
MCH4X	001	MW-108	BH@185 ' 20101215	12/15/10	09:15
MCH41	002	TB-20101215		12/15/10	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

TestAmerica Knoxville North Canton
 5815 Middlebrook Pike 4101 Shuffel Drive
 Knoxville, TN 37921 North Canton OH 44720
 Phone 865-291-3000 (Main) 330-966-9789
 Phone 865-291-3001 (Receiving)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

14

Client Contact		Project Manager: Denise Pohl		Site Contact:		COC Record _____ of _____	
Company Name AREADIS		Tel/Mobile:		Lab Contact:		Carrier:	
Address 8725 Rosehill-St 350		Analysis Turnaround Time		Analysis (Attach list if more space is needed)		COC No: 01789	
City/State/Zip LENEXA/KS/66219		Calendar (C) or Work Days (W) _____		Field Filtered Sample VOCs by 8260 B		Lab Use Only:	
Phone 913-492-0900		TAT if different from Below _____				Custody Seals Intact? Y N NA	
Project Name/Number TRW 0602		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Number of Packages: _____	
Site:						Temperature: _____ deg C	
P O # KC001590.0003.00002						Shipper: __ FedEx __ UPS __ Other:	
Sampled by Larry Benolkin						Tracking Number:	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Recorded by: _____ Date: _____
MW-3 BH @ 185'	20101215	12/15/2010	0915	GENB	GW	3	Sample Specific Notes:
TB-20101215	-	-	"	W		2	
Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Na ₂ S ₂ O ₃ Other 1,2							
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments:							
Relinquished by: Larry Benolkin		Company: AREADIS		Date/Time: 12/15/10 - 1030		Received by: [Signature]	
Relinquished by:		Company:		Date/Time:		Received by:	
Relinquished by:		Company:		Date/Time:		Received by:	

RETURN WHITE COPY TO LAB WITH SAMPLES
 KEEP YELLOW COPY FOR YOUR RECORDS

TAL-0046-140 (03/98)

North Canton

Lot Number: A06170577

Cooler Received on 12-17-10 Opened on 12-17-10 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____

TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
If YES, Quantity 2 Quantity Unsalvageable _____
Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
Were custody seals on the bottle(s)? Yes ☐ No ☒
If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☐ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 22 °C See back of form for multiple coolers/temps ☐
METHOD: IR ☒ Other ☐ _____
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐
Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

The following discrepancies occurred:

[illegible]

Sample(s)	were received after the recommended holding time had expired.
Sample(s)	were received in a broken container.
Sample(s)	were received with bubble >6 mm in diameter. (Notify PM)

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108- (CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

[illegible]

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

[illegible]

Discrepancies Cont'd.

[illegible]

GCMS VOLATILE DATA

TRW Automotive

Client Sample ID: MW-108 BH@185'20101215

GC/MS Volatiles

Lot-Sample #...: A0L170577-001 Work Order #...: MCH4X1AA Matrix.....: WG
 Date Sampled...: 12/15/10 09:15 Date Received...: 12/17/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/23/10
 Prep Batch #...: 0357190
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	2.0	1.0	ug/L
1,1-Dichloroethane	1.8	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	33	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108 BH@185'20101215

GC/MS Volatiles

Lot-Sample #...: A0L170577-001 Work Order #...: MCH4X1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	1.0	1.0	ug/L
Toluene	1.6	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.1	1.0	ug/L
Trichlorofluoromethane	6.4	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	87	(75 - 121)
1,2-Dichloroethane-d4	78	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	83	(66 - 117)

TRW Automotive

Client Sample ID: TB-20101215

GC/MS Volatiles

Lot-Sample #...: A0L170577-002 Work Order #...: MCH411AA Matrix.....: WQ
 Date Sampled...: 12/15/10 Date Received...: 12/17/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/23/10
 Prep Batch #...: 0357190
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20101215

GC/MS Volatiles

Lot-Sample #...: A0L170577-002 Work Order #...: MCH411AA Matrix.....: WQ

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	3.3	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(75 - 121)
1,2-Dichloroethane-d4	79	(63 - 129)
Toluene-d8	95	(74 - 115)
4-Bromofluorobenzene	82	(66 - 117)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0L170577
MB Lot-Sample #: A0L230000-190

Work Order #...: MCQ2G1AA

Matrix.....: WATER

Analysis Date...: 12/23/10

Prep Date.....: 12/23/10

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 0357190

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0L170577

Work Order #...: MCQ2G1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
n-Propylbenzene	ND	1.0	ug/L	SW846	8260B
Styrene	ND	1.0	ug/L	SW846	8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
Tetrachloroethene	ND	1.0	ug/L	SW846	8260B
Toluene	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846	8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846	8260B
Trichloroethene	ND	1.0	ug/L	SW846	8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846	8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
Vinyl chloride	ND	1.0	ug/L	SW846	8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846	8260B
o-Xylene	ND	1.0	ug/L	SW846	8260B
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
Dibromofluoromethane	85		(75 - 121)		
1,2-Dichloroethane-d4	76		(63 - 129)		
Toluene-d8	94		(74 - 115)		
4-Bromofluorobenzene	85		(66 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCQ2G1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD
 Prep Date.....: 12/22/10 Analysis Date...: 12/22/10
 Prep Batch #...: 0357190
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	92	(83 - 112)			SW846 8260B
	91	(83 - 112)	1.4	(0-30)	SW846 8260B
Acetone	75	(43 - 136)			SW846 8260B
	75	(43 - 136)	1.1	(0-30)	SW846 8260B
Bromobenzene	88	(76 - 115)			SW846 8260B
	88	(76 - 115)	0.92	(0-30)	SW846 8260B
Carbon disulfide	110	(62 - 142)			SW846 8260B
	110	(62 - 142)	0.31	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	90	(82 - 114)			SW846 8260B
	88	(82 - 114)	2.6	(0-30)	SW846 8260B
Bromochloromethane	87	(77 - 120)			SW846 8260B
	83	(77 - 120)	4.6	(0-30)	SW846 8260B
2-Butanone	74	(60 - 126)			SW846 8260B
	75	(60 - 126)	1.9	(0-30)	SW846 8260B
Bromodichloromethane	87	(72 - 121)			SW846 8260B
	87	(72 - 121)	0.34	(0-30)	SW846 8260B
Bromoform	73	(40 - 131)			SW846 8260B
	74	(40 - 131)	0.92	(0-30)	SW846 8260B
Bromomethane	59	(11 - 185)			SW846 8260B
	72	(11 - 185)	20	(0-30)	SW846 8260B
n-Butylbenzene	89	(66 - 125)			SW846 8260B
	85	(66 - 125)	3.9	(0-30)	SW846 8260B
4-Methyl-2-pentanone	77	(63 - 128)			SW846 8260B
	81	(63 - 128)	5.0	(0-30)	SW846 8260B
2-Hexanone	71	(55 - 133)			SW846 8260B
	76	(55 - 133)	6.8	(0-30)	SW846 8260B
sec-Butylbenzene	89	(70 - 117)			SW846 8260B
	88	(70 - 117)	1.8	(0-30)	SW846 8260B
tert-Butylbenzene	96	(71 - 115)			SW846 8260B
	86	(71 - 115)	11	(0-30)	SW846 8260B
Xylenes (total)	90	(83 - 112)			SW846 8260B
	89	(83 - 112)	1.4	(0-30)	SW846 8260B
Carbon tetrachloride	91	(66 - 128)			SW846 8260B
	88	(66 - 128)	2.7	(0-30)	SW846 8260B
Chlorobenzene	91	(85 - 110)			SW846 8260B
	91	(85 - 110)	0.14	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCQ2G1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromochloromethane	88	(64 - 119)			SW846 8260B
	88	(64 - 119)	0.41	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	114	(74 - 151)			SW846 8260B
	107	(74 - 151)	6.5	(0-30)	SW846 8260B
Methyl acetate	78	(58 - 131)			SW846 8260B
	78	(58 - 131)	1.0	(0-30)	SW846 8260B
Chloroethane	71	(25 - 153)			SW846 8260B
	77	(25 - 153)	8.0	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	80	(52 - 144)			SW846 8260B
	79	(52 - 144)	1.2	(0-30)	SW846 8260B
Cyclohexane	92	(54 - 121)			SW846 8260B
	87	(54 - 121)	5.3	(0-30)	SW846 8260B
Methylcyclohexane	88	(56 - 127)			SW846 8260B
	83	(56 - 127)	5.4	(0-30)	SW846 8260B
Chloroform	88	(79 - 117)			SW846 8260B
	84	(79 - 117)	4.6	(0-30)	SW846 8260B
Chloromethane	69	(44 - 126)			SW846 8260B
	66	(44 - 126)	3.3	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	101	(42 - 136)			SW846 8260B
	104	(42 - 136)	2.5	(0-30)	SW846 8260B
2-Chlorotoluene	90	(76 - 116)			SW846 8260B
	90	(76 - 116)	0.48	(0-30)	SW846 8260B
Methyl tert-butyl ether	80	(52 - 144)			SW846 8260B
	79	(52 - 144)	1.2	(0-30)	SW846 8260B
n-Hexane	100	(66 - 137)			SW846 8260B
	92	(66 - 137)	8.6	(0-30)	SW846 8260B
4-Chlorotoluene	88	(77 - 115)			SW846 8260B
	88	(77 - 115)	0.020	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	88	(52 - 131)			SW846 8260B
	90	(52 - 131)	2.5	(0-30)	SW846 8260B
Acetonitrile	91	(15 - 184)			SW846 8260B
	88	(15 - 184)	2.6	(0-30)	SW846 8260B
1,2-Dibromoethane	92	(79 - 113)			SW846 8260B
	91	(79 - 113)	1.5	(0-30)	SW846 8260B
Acrolein	86	(51 - 170)			SW846 8260B
	86	(51 - 170)	0.020	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCQ2G1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl acetate	94	(46 - 161)			SW846 8260B
	83	(46 - 161)	13	(0-30)	SW846 8260B
Acrylonitrile	87	(66 - 132)			SW846 8260B
	88	(66 - 132)	1.8	(0-30)	SW846 8260B
Dibromomethane	91	(81 - 120)			SW846 8260B
	90	(81 - 120)	1.3	(0-30)	SW846 8260B
1,2-Dichlorobenzene	95	(81 - 110)			SW846 8260B
	94	(81 - 110)	1.7	(0-30)	SW846 8260B
1,3-Dichlorobenzene	90	(80 - 110)			SW846 8260B
	89	(80 - 110)	1.5	(0-30)	SW846 8260B
1,4-Dichlorobenzene	88	(82 - 110)			SW846 8260B
	88	(82 - 110)	0.42	(0-30)	SW846 8260B
Iodomethane	109	(72 - 141)			SW846 8260B
	110	(72 - 141)	0.88	(0-30)	SW846 8260B
Isopropyl ether	88	(77 - 118)			SW846 8260B
	85	(77 - 118)	4.0	(0-30)	SW846 8260B
Dichlorodifluoromethane	88	(19 - 129)			SW846 8260B
	84	(19 - 129)	4.3	(0-30)	SW846 8260B
1,1-Dichloroethane	90	(82 - 115)			SW846 8260B
	87	(82 - 115)	3.7	(0-30)	SW846 8260B
1,2-Dichloroethane	79	(71 - 127)			SW846 8260B
	77	(71 - 127)	2.0	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	88	(80 - 113)			SW846 8260B
	86	(80 - 113)	2.7	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	92	(83 - 117)			SW846 8260B
	90	(83 - 117)	2.4	(0-30)	SW846 8260B
1,1-Dichloroethene	98	(78 - 131)			SW846 8260B
	95	(78 - 131)	2.2	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(81 - 115)			SW846 8260B
	96	(81 - 115)	2.3	(0-30)	SW846 8260B
1,3-Dichloropropane	97	(79 - 116)			SW846 8260B
	98	(79 - 116)	1.2	(0-30)	SW846 8260B
2,2-Dichloropropane	72	(50 - 129)			SW846 8260B
	69	(50 - 129)	3.6	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	88	(61 - 115)			SW846 8260B
	88	(61 - 115)	0.61	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	90	(58 - 117)			SW846 8260B
	94	(58 - 117)	3.8	(0-30)	SW846 8260B
1,1-Dichloropropene	87	(83 - 114)			SW846 8260B
	83	(83 - 114)	4.6	(0-30)	SW846 8260B
Ethylbenzene	89	(83 - 112)			SW846 8260B
	89	(83 - 112)	0.56	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCQ2G1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	68	(36 - 134)			SW846 8260B
	68	(36 - 134)	1.1	(0-30)	SW846 8260B
Isopropylbenzene	87	(75 - 114)			SW846 8260B
	85	(75 - 114)	3.1	(0-30)	SW846 8260B
p-Isopropyltoluene	92	(74 - 120)			SW846 8260B
	89	(74 - 120)	3.2	(0-30)	SW846 8260B
Methylene chloride	100	(66 - 131)			SW846 8260B
	98	(66 - 131)	1.8	(0-30)	SW846 8260B
Naphthalene	88	(32 - 141)			SW846 8260B
	89	(32 - 141)	0.85	(0-30)	SW846 8260B
n-Propylbenzene	89	(74 - 121)			SW846 8260B
	90	(74 - 121)	0.83	(0-30)	SW846 8260B
Styrene	91	(79 - 114)			SW846 8260B
	89	(79 - 114)	1.9	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	89	(72 - 116)			SW846 8260B
	88	(72 - 116)	0.83	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	99	(68 - 118)			SW846 8260B
	99	(68 - 118)	0.14	(0-30)	SW846 8260B
Tetrachloroethene	90	(79 - 114)			SW846 8260B
	89	(79 - 114)	1.2	(0-30)	SW846 8260B
Toluene	96	(84 - 111)			SW846 8260B
	96	(84 - 111)	0.10	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	87	(54 - 126)			SW846 8260B
	86	(54 - 126)	0.53	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	85	(48 - 135)			SW846 8260B
	85	(48 - 135)	0.88	(0-30)	SW846 8260B
1,1,1-Trichloroethane	86	(74 - 118)			SW846 8260B
	83	(74 - 118)	3.8	(0-30)	SW846 8260B
1,1,2-Trichloroethane	100	(80 - 112)			SW846 8260B
	101	(80 - 112)	0.94	(0-30)	SW846 8260B
Trichloroethene	86	(76 - 117)			SW846 8260B
	87	(76 - 117)	1.2	(0-20)	SW846 8260B
Trichlorofluoromethane	90	(49 - 157)			SW846 8260B
	93	(49 - 157)	4.3	(0-30)	SW846 8260B
1,2,3-Trichloropropane	89	(73 - 129)			SW846 8260B
	91	(73 - 129)	2.0	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	94	(76 - 120)			SW846 8260B
	93	(76 - 120)	1.2	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	93	(72 - 118)			SW846 8260B
	92	(72 - 118)	1.5	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCQ2G1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	RPD	RPD <u>LIMITS</u>	<u>METHOD</u>
Vinyl chloride	75	(53 - 127)			SW846 8260B
	75	(53 - 127)	0.73	(0-30)	SW846 8260B
m-Xylene & p-Xylene	90	(83 - 113)			SW846 8260B
	89	(83 - 113)	1.4	(0-30)	SW846 8260B
o-Xylene	90	(83 - 113)			SW846 8260B
	89	(83 - 113)	1.3	(0-30)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	86	(75 - 121)
	84	(75 - 121)
1,2-Dichloroethane-d4	75	(63 - 129)
	72	(63 - 129)
Toluene-d8	100	(74 - 115)
	100	(74 - 115)
4-Bromofluorobenzene	96	(66 - 117)
	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCQ2G1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD
 Prep Date.....: 12/22/10 Analysis Date...: 12/22/10
 Prep Batch #...: 0357190
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	10	9.2	ug/L	92		SW846 8260B
	10	9.1	ug/L	91	1.4	SW846 8260B
Acetone	20	15	ug/L	75		SW846 8260B
	20	15	ug/L	75	1.1	SW846 8260B
Bromobenzene	10	8.8	ug/L	88		SW846 8260B
	10	8.8	ug/L	88	0.92	SW846 8260B
Carbon disulfide	10	11	ug/L	110		SW846 8260B
	10	11	ug/L	110	0.31	SW846 8260B
1,2-Dichloroethene (total)	20	18	ug/L	90		SW846 8260B
	20	18	ug/L	88	2.6	SW846 8260B
Bromochloromethane	10	8.7	ug/L	87		SW846 8260B
	10	8.3	ug/L	83	4.6	SW846 8260B
2-Butanone	20	15	ug/L	74		SW846 8260B
	20	15	ug/L	75	1.9	SW846 8260B
Bromodichloromethane	10	8.7	ug/L	87		SW846 8260B
	10	8.7	ug/L	87	0.34	SW846 8260B
Bromoform	10	7.3	ug/L	73		SW846 8260B
	10	7.4	ug/L	74	0.92	SW846 8260B
Bromomethane	10	5.9	ug/L	59		SW846 8260B
	10	7.2	ug/L	72	20	SW846 8260B
n-Butylbenzene	10	8.9	ug/L	89		SW846 8260B
	10	8.5	ug/L	85	3.9	SW846 8260B
4-Methyl-2-pentanone	20	15	ug/L	77		SW846 8260B
	20	16	ug/L	81	5.0	SW846 8260B
2-Hexanone	20	14	ug/L	71		SW846 8260B
	20	15	ug/L	76	6.8	SW846 8260B
sec-Butylbenzene	10	8.9	ug/L	89		SW846 8260B
	10	8.8	ug/L	88	1.8	SW846 8260B
tert-Butylbenzene	10	9.6	ug/L	96		SW846 8260B
	10	8.6	ug/L	86	11	SW846 8260B
Xylenes (total)	30	27	ug/L	90		SW846 8260B
	30	27	ug/L	89	1.4	SW846 8260B
Carbon tetrachloride	10	9.1	ug/L	91		SW846 8260B
	10	8.8	ug/L	88	2.7	SW846 8260B
Chlorobenzene	10	9.1	ug/L	91		SW846 8260B
	10	9.1	ug/L	91	0.14	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 **Work Order #...**: MCQ2G1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Dibromochloromethane	10	8.8	ug/L	88		SW846 8260B
	10	8.8	ug/L	88	0.41	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	11	ug/L	114		SW846 8260B
	10	11	ug/L	107	6.5	SW846 8260B
Methyl acetate	10	7.8	ug/L	78		SW846 8260B
	10	7.8	ug/L	78	1.0	SW846 8260B
Chloroethane	10	7.1	ug/L	71		SW846 8260B
	10	7.7	ug/L	77	8.0	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	8.0	ug/L	80		SW846 8260B
	10	7.9	ug/L	79	1.2	SW846 8260B
Cyclohexane	10	9.2	ug/L	92		SW846 8260B
	10	8.7	ug/L	87	5.3	SW846 8260B
Methylcyclohexane	10	8.8	ug/L	88		SW846 8260B
	10	8.3	ug/L	83	5.4	SW846 8260B
Chloroform	10	8.8	ug/L	88		SW846 8260B
	10	8.4	ug/L	84	4.6	SW846 8260B
Chloromethane	10	6.9	ug/L	69		SW846 8260B
	10	6.6	ug/L	66	3.3	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	104	2.5	SW846 8260B
2-Chlorotoluene	10	9.0	ug/L	90		SW846 8260B
	10	9.0	ug/L	90	0.48	SW846 8260B
Methyl tert-butyl ether	10	8.0	ug/L	80		SW846 8260B
	10	7.9	ug/L	79	1.2	SW846 8260B
n-Hexane	10	10	ug/L	100		SW846 8260B
	10	9.2	ug/L	92	8.6	SW846 8260B
4-Chlorotoluene	10	8.8	ug/L	88		SW846 8260B
	10	8.8	ug/L	88	0.020	SW846 8260B
2-Chloroethyl vinyl ether	10	8.8	ug/L	88		SW846 8260B
	10	9.0	ug/L	90	2.5	SW846 8260B
Acetonitrile	30	27	ug/L	91		SW846 8260B
	30	27	ug/L	88	2.6	SW846 8260B
1,2-Dibromoethane	10	9.2	ug/L	92		SW846 8260B
	10	9.1	ug/L	91	1.5	SW846 8260B
Acrolein	30	26	ug/L	86		SW846 8260B
	30	26	ug/L	86	0.020	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 **Work Order #...**: MCQ2G1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Vinyl acetate	10	9.4	ug/L	94		SW846 8260B
	10	8.3	ug/L	83	13	SW846 8260B
Acrylonitrile	30	26	ug/L	87		SW846 8260B
	30	26	ug/L	88	1.8	SW846 8260B
Dibromomethane	10	9.1	ug/L	91		SW846 8260B
	10	9.0	ug/L	90	1.3	SW846 8260B
1,2-Dichlorobenzene	10	9.5	ug/L	95		SW846 8260B
	10	9.4	ug/L	94	1.7	SW846 8260B
1,3-Dichlorobenzene	10	9.0	ug/L	90		SW846 8260B
	10	8.9	ug/L	89	1.5	SW846 8260B
1,4-Dichlorobenzene	10	8.8	ug/L	88		SW846 8260B
	10	8.8	ug/L	88	0.42	SW846 8260B
Iodomethane	10	11	ug/L	109		SW846 8260B
	10	11	ug/L	110	0.88	SW846 8260B
Isopropyl ether	10	8.8	ug/L	88		SW846 8260B
	10	8.5	ug/L	85	4.0	SW846 8260B
Dichlorodifluoromethane	10	8.8	ug/L	88		SW846 8260B
	10	8.4	ug/L	84	4.3	SW846 8260B
1,1-Dichloroethane	10	9.0	ug/L	90		SW846 8260B
	10	8.7	ug/L	87	3.7	SW846 8260B
1,2-Dichloroethane	10	7.9	ug/L	79		SW846 8260B
	10	7.7	ug/L	77	2.0	SW846 8260B
cis-1,2-Dichloroethene	10	8.8	ug/L	88		SW846 8260B
	10	8.6	ug/L	86	2.7	SW846 8260B
trans-1,2-Dichloroethene	10	9.2	ug/L	92		SW846 8260B
	10	9.0	ug/L	90	2.4	SW846 8260B
1,1-Dichloroethene	10	9.8	ug/L	98		SW846 8260B
	10	9.5	ug/L	95	2.2	SW846 8260B
1,2-Dichloropropane	10	9.8	ug/L	98		SW846 8260B
	10	9.6	ug/L	96	2.3	SW846 8260B
1,3-Dichloropropane	10	9.7	ug/L	97		SW846 8260B
	10	9.8	ug/L	98	1.2	SW846 8260B
2,2-Dichloropropane	10	7.2	ug/L	72		SW846 8260B
	10	6.9	ug/L	69	3.6	SW846 8260B
cis-1,3-Dichloropropene	10	8.8	ug/L	88		SW846 8260B
	10	8.8	ug/L	88	0.61	SW846 8260B
trans-1,3-Dichloropropene	10	9.0	ug/L	90		SW846 8260B
	10	9.4	ug/L	94	3.8	SW846 8260B
1,1-Dichloropropene	10	8.7	ug/L	87		SW846 8260B
	10	8.3	ug/L	83	4.6	SW846 8260B
Ethylbenzene	10	8.9	ug/L	89		SW846 8260B
	10	8.9	ug/L	89	0.56	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCQ2G1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hexachlorobutadiene	10	6.8	ug/L	68		SW846 8260B
	10	6.8	ug/L	68	1.1	SW846 8260B
Isopropylbenzene	10	8.7	ug/L	87		SW846 8260B
	10	8.5	ug/L	85	3.1	SW846 8260B
p-Isopropyltoluene	10	9.2	ug/L	92		SW846 8260B
	10	8.9	ug/L	89	3.2	SW846 8260B
Methylene chloride	10	10	ug/L	100		SW846 8260B
	10	9.8	ug/L	98	1.8	SW846 8260B
Naphthalene	10	8.8	ug/L	88		SW846 8260B
	10	8.9	ug/L	89	0.85	SW846 8260B
n-Propylbenzene	10	8.9	ug/L	89		SW846 8260B
	10	9.0	ug/L	90	0.83	SW846 8260B
Styrene	10	9.1	ug/L	91		SW846 8260B
	10	8.9	ug/L	89	1.9	SW846 8260B
1,1,1,2-Tetrachloroethane	10	8.9	ug/L	89		SW846 8260B
	10	8.8	ug/L	88	0.83	SW846 8260B
1,1,2,2-Tetrachloroethane	10	9.9	ug/L	99		SW846 8260B
	10	9.9	ug/L	99	0.14	SW846 8260B
Tetrachloroethene	10	9.0	ug/L	90		SW846 8260B
	10	8.9	ug/L	89	1.2	SW846 8260B
Toluene	10	9.6	ug/L	96		SW846 8260B
	10	9.6	ug/L	96	0.10	SW846 8260B
1,2,3-Trichlorobenzene	10	8.7	ug/L	87		SW846 8260B
	10	8.6	ug/L	86	0.53	SW846 8260B
1,2,4-Trichloro- benzene	10	8.5	ug/L	85		SW846 8260B
	10	8.5	ug/L	85	0.88	SW846 8260B
1,1,1-Trichloroethane	10	8.6	ug/L	86		SW846 8260B
	10	8.3	ug/L	83	3.8	SW846 8260B
1,1,2-Trichloroethane	10	10	ug/L	100		SW846 8260B
	10	10	ug/L	101	0.94	SW846 8260B
Trichloroethene	10	8.6	ug/L	86		SW846 8260B
	10	8.7	ug/L	87	1.2	SW846 8260B
Trichlorofluoromethane	10	9.0	ug/L	90		SW846 8260B
	10	9.3	ug/L	93	4.3	SW846 8260B
1,2,3-Trichloropropane	10	8.9	ug/L	89		SW846 8260B
	10	9.1	ug/L	91	2.0	SW846 8260B
1,2,4-Trimethylbenzene	10	9.4	ug/L	94		SW846 8260B
	10	9.3	ug/L	93	1.2	SW846 8260B
1,3,5-Trimethylbenzene	10	9.3	ug/L	93		SW846 8260B
	10	9.2	ug/L	92	1.5	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCQ2G1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0L230000-190 MCQ2G1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Vinyl chloride	10	7.5	ug/L	75		SW846 8260B
	10	7.5	ug/L	75	0.73	SW846 8260B
m-Xylene & p-Xylene	20	18	ug/L	90		SW846 8260B
	20	18	ug/L	89	1.4	SW846 8260B
o-Xylene	10	9.0	ug/L	90		SW846 8260B
	10	8.9	ug/L	89	1.3	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(75 - 121)
	84	(75 - 121)
1,2-Dichloroethane-d4	75	(63 - 129)
	72	(63 - 129)
Toluene-d8	100	(74 - 115)
	100	(74 - 115)
4-Bromofluorobenzene	96	(66 - 117)
	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
 MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD
 Date Sampled...: 12/16/10 17:00 Date Received...: 12/17/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/23/10
 Prep Batch #...: 0357190
 Dilution Factor: 16666.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	95	(72 - 121)			SW846 8260B
	93	(72 - 121)	2.6	(0-30)	SW846 8260B
Bromobenzene	87	(71 - 116)			SW846 8260B
	89	(71 - 116)	2.0	(0-30)	SW846 8260B
Acetone	73	(33 - 145)			SW846 8260B
	68	(33 - 145)	6.6	(0-30)	SW846 8260B
Carbon disulfide	120	(57 - 147)			SW846 8260B
	117	(57 - 147)	2.5	(0-30)	SW846 8260B
Bromochloromethane	93	(73 - 121)			SW846 8260B
	87	(73 - 121)	6.9	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	109	(75 - 119)			SW846 8260B
	89	(75 - 119)	8.0	(0-30)	SW846 8260B
Bromodichloromethane	90	(67 - 120)			SW846 8260B
	90	(67 - 120)	0.26	(0-30)	SW846 8260B
2-Butanone	78	(54 - 129)			SW846 8260B
	73	(54 - 129)	6.6	(0-30)	SW846 8260B
Bromoform	82	(32 - 128)			SW846 8260B
	76	(32 - 128)	6.8	(0-30)	SW846 8260B
Bromomethane	65	(10 - 186)			SW846 8260B
	59	(10 - 186)	9.6	(0-30)	SW846 8260B
n-Butylbenzene	90	(56 - 127)			SW846 8260B
	94	(56 - 127)	4.3	(0-30)	SW846 8260B
4-Methyl-2-pentanone	76	(56 - 131)			SW846 8260B
	78	(56 - 131)	2.7	(0-30)	SW846 8260B
sec-Butylbenzene	89	(60 - 119)			SW846 8260B
	94	(60 - 119)	6.2	(0-30)	SW846 8260B
2-Hexanone	76	(47 - 139)			SW846 8260B
	73	(47 - 139)	3.5	(0-30)	SW846 8260B
tert-Butylbenzene	93	(61 - 119)			SW846 8260B
	100	(61 - 119)	7.1	(0-30)	SW846 8260B
Carbon tetrachloride	94	(59 - 129)			SW846 8260B
	91	(59 - 129)	3.6	(0-30)	SW846 8260B
Xylenes (total)	96	(76 - 116)			SW846 8260B
	94	(76 - 116)	2.3	(0-30)	SW846 8260B
Chlorobenzene	94	(80 - 110)			SW846 8260B
	94	(80 - 110)	0.30	(0-30)	SW846 8260B
Dibromochloromethane	93	(56 - 118)			SW846 8260B
	90	(56 - 118)	2.7	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	125	(70 - 152)			SW846 8260B
	120	(70 - 152)	4.1	(0-30)	SW846 8260B
Methyl acetate	82	(47 - 130)			SW846 8260B
	75	(47 - 130)	8.7	(0-30)	SW846 8260B
Chloroethane	73	(21 - 165)			SW846 8260B
	72	(21 - 165)	2.0	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	81	(46 - 144)			SW846 8260B
	79	(46 - 144)	2.4	(0-30)	SW846 8260B
Cyclohexane	99	(49 - 123)			SW846 8260B
	98	(49 - 123)	1.3	(0-30)	SW846 8260B
Methylcyclohexane	99	(49 - 127)			SW846 8260B
	96	(49 - 127)	3.7	(0-30)	SW846 8260B
Chloroform	93	(76 - 118)			SW846 8260B
	86	(76 - 118)	7.4	(0-30)	SW846 8260B
Chloromethane	65	(33 - 132)			SW846 8260B
	65	(33 - 132)	0.08	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	103	(32 - 139)			SW846 8260B
	105	(32 - 139)	2.3	(0-30)	SW846 8260B
2-Chlorotoluene	88	(69 - 117)			SW846 8260B
	92	(69 - 117)	4.2	(0-30)	SW846 8260B
Methyl tert-butyl ether	81	(46 - 144)			SW846 8260B
	79	(46 - 144)	2.4	(0-30)	SW846 8260B
n-Hexane	105	(54 - 138)			SW846 8260B
	104	(54 - 138)	1.8	(0-30)	SW846 8260B
4-Chlorotoluene	88	(71 - 116)			SW846 8260B
	91	(71 - 116)	2.5	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	70	(10 - 150)			SW846 8260B
	81	(10 - 150)	15	(0-30)	SW846 8260B
Acetonitrile	90	(12 - 182)			SW846 8260B
	92	(12 - 182)	1.9	(0-30)	SW846 8260B
1,2-Dibromoethane	92	(74 - 113)			SW846 8260B
	92	(74 - 113)	0.72	(0-30)	SW846 8260B
Acrolein	70	(47 - 168)			SW846 8260B
	68	(47 - 168)	3.5	(0-30)	SW846 8260B
Acrylonitrile	95	(62 - 133)			SW846 8260B
	86	(62 - 133)	11	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl acetate	104	(43 - 157)			SW846 8260B
	100	(43 - 157)	3.6	(0-30)	SW846 8260B
Dibromomethane	95	(77 - 121)			SW846 8260B
	92	(77 - 121)	3.2	(0-30)	SW846 8260B
1,2-Dichlorobenzene	95	(75 - 111)			SW846 8260B
	97	(75 - 111)	2.2	(0-30)	SW846 8260B
1,3-Dichlorobenzene	91	(73 - 110)			SW846 8260B
	93	(73 - 110)	2.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	89	(75 - 110)			SW846 8260B
	92	(75 - 110)	3.0	(0-30)	SW846 8260B
Iodomethane	114	(66 - 144)			SW846 8260B
	112	(66 - 144)	1.6	(0-30)	SW846 8260B
Isopropyl ether	87	(73 - 118)			SW846 8260B
	85	(73 - 118)	2.1	(0-30)	SW846 8260B
Dichlorodifluoromethane	96	(17 - 128)			SW846 8260B
	93	(17 - 128)	2.5	(0-30)	SW846 8260B
1,1-Dichloroethane	95	(79 - 116)			SW846 8260B
	90	(79 - 116)	5.3	(0-30)	SW846 8260B
1,2-Dichloroethane	84	(68 - 129)			SW846 8260B
	80	(68 - 129)	4.6	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	120	(70 - 120)			SW846 8260B
	84	(70 - 120)	9.0	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	98	(80 - 119)			SW846 8260B
	94	(80 - 119)	3.6	(0-30)	SW846 8260B
1,1-Dichloroethene	105	(74 - 135)			SW846 8260B
	101	(74 - 135)	4.3	(0-30)	SW846 8260B
1,2-Dichloropropane	97	(78 - 115)			SW846 8260B
	98	(78 - 115)	1.3	(0-30)	SW846 8260B
1,3-Dichloropropane	95	(74 - 118)			SW846 8260B
	98	(74 - 118)	4.1	(0-30)	SW846 8260B
2,2-Dichloropropane	79	(38 - 127)			SW846 8260B
	79	(38 - 127)	0.92	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	81	(51 - 110)			SW846 8260B
	87	(51 - 110)	6.8	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	87	(46 - 116)			SW846 8260B
	91	(46 - 116)	4.2	(0-30)	SW846 8260B
1,1-Dichloropropene	93	(80 - 114)			SW846 8260B
	87	(80 - 114)	6.2	(0-30)	SW846 8260B
Ethylbenzene	92	(75 - 116)			SW846 8260B
	93	(75 - 116)	0.80	(0-30)	SW846 8260B
Hexachlorobutadiene	78	(27 - 132)			SW846 8260B
	76	(27 - 132)	2.4	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Isopropylbenzene	91	(68 - 116)			SW846 8260B
	90	(68 - 116)	0.79	(0-30)	SW846 8260B
p-Isopropyltoluene	92	(64 - 122)			SW846 8260B
	97	(64 - 122)	4.8	(0-30)	SW846 8260B
Methylene chloride	102	(63 - 128)			SW846 8260B
	97	(63 - 128)	4.9	(0-30)	SW846 8260B
Naphthalene	84	(15 - 158)			SW846 8260B
	89	(15 - 158)	5.5	(0-30)	SW846 8260B
n-Propylbenzene	90	(64 - 124)			SW846 8260B
	93	(64 - 124)	3.3	(0-30)	SW846 8260B
Styrene	96	(71 - 117)			SW846 8260B
	92	(71 - 117)	4.3	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(64 - 118)			SW846 8260B
	92	(64 - 118)	3.4	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	98	(63 - 122)			SW846 8260B
	99	(63 - 122)	0.07	(0-30)	SW846 8260B
Tetrachloroethene	103	(70 - 117)			SW846 8260B
	103	(70 - 117)	0.08	(0-30)	SW846 8260B
Toluene	100	(78 - 114)			SW846 8260B
	99	(78 - 114)	1.2	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	85	(45 - 129)			SW846 8260B
	90	(45 - 129)	6.3	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	82	(38 - 138)			SW846 8260B
	88	(38 - 138)	7.5	(0-30)	SW846 8260B
1,1,1-Trichloroethane	88	(68 - 121)			SW846 8260B
	86	(68 - 121)	2.1	(0-30)	SW846 8260B
1,1,2-Trichloroethane	103	(75 - 115)			SW846 8260B
	103	(75 - 115)	0.17	(0-30)	SW846 8260B
Trichloroethene	89	(66 - 120)			SW846 8260B
	88	(66 - 120)	1.2	(0-30)	SW846 8260B
Trichlorofluoromethane	87	(46 - 157)			SW846 8260B
	88	(46 - 157)	1.2	(0-30)	SW846 8260B
1,2,3-Trichloropropane	90	(67 - 132)			SW846 8260B
	90	(67 - 132)	0.34	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	93	(67 - 124)			SW846 8260B
	97	(67 - 124)	3.5	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	91	(63 - 121)			SW846 8260B
	97	(63 - 121)	6.7	(0-30)	SW846 8260B
Vinyl chloride	80	(49 - 130)			SW846 8260B
	78	(49 - 130)	2.1	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
 MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
m-Xylene & p-Xylene	96	(75 - 117)			SW846 8260B
	94	(75 - 117)	2.0	(0-30)	SW846 8260B
o-Xylene	95	(76 - 116)			SW846 8260B
	92	(76 - 116)	2.9	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
	85	(75 - 121)
1,2-Dichloroethane-d4	78	(63 - 129)
	73	(63 - 129)
Toluene-d8	97	(74 - 115)
	99	(74 - 115)
4-Bromofluorobenzene	99	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
 MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD
 Date Sampled...: 12/16/10 17:00 Date Received...: 12/17/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/23/10
 Prep Batch #...: 0357190
 Dilution Factor: 16666.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	170000	160000	ug/L	95		SW846 8260B
	ND	170000	150000	ug/L	93	2.6	SW846 8260B
Bromobenzene	ND	170000	150000	ug/L	87		SW846 8260B
	ND	170000	150000	ug/L	89	2.0	SW846 8260B
Acetone	ND	330000	260000	ug/L	73		SW846 8260B
	ND	330000	240000	ug/L	68	6.6	SW846 8260B
Carbon disulfide	ND	170000	200000	ug/L	120		SW846 8260B
	ND	170000	200000	ug/L	117	2.5	SW846 8260B
Bromochloromethane	ND	170000	160000	ug/L	93		SW846 8260B
	ND	170000	150000	ug/L	87	6.9	SW846 8260B
1,2-Dichloroethene (total)	480000	330000	850000	ug/L	109		SW846 8260B
	480000	330000	780000	ug/L	89	8.0	SW846 8260B
Bromodichloromethane	ND	170000	150000	ug/L	90		SW846 8260B
	ND	170000	150000	ug/L	90	0.26	SW846 8260B
2-Butanone	ND	330000	260000	ug/L	78		SW846 8260B
	ND	330000	240000	ug/L	73	6.6	SW846 8260B
Bromoform	ND	170000	140000	ug/L	82		SW846 8260B
	ND	170000	130000	ug/L	76	6.8	SW846 8260B
Bromomethane	ND	170000	110000	ug/L	65		SW846 8260B
	ND	170000	99000	ug/L	59	9.6	SW846 8260B
n-Butylbenzene	ND	170000	150000	ug/L	90		SW846 8260B
	ND	170000	160000	ug/L	94	4.3	SW846 8260B
4-Methyl-2-pentanone	ND	330000	250000	ug/L	76		SW846 8260B
	ND	330000	260000	ug/L	78	2.7	SW846 8260B
sec-Butylbenzene	ND	170000	150000	ug/L	89		SW846 8260B
	ND	170000	160000	ug/L	94	6.2	SW846 8260B
2-Hexanone	ND	330000	250000	ug/L	76		SW846 8260B
	ND	330000	240000	ug/L	73	3.5	SW846 8260B
tert-Butylbenzene	ND	170000	150000	ug/L	93		SW846 8260B
	ND	170000	170000	ug/L	100	7.1	SW846 8260B
Carbon tetrachloride	ND	170000	160000	ug/L	94		SW846 8260B
	ND	170000	150000	ug/L	91	3.6	SW846 8260B
Xylenes (total)	ND	500000	480000	ug/L	96		SW846 8260B
	ND	500000	470000	ug/L	94	2.3	SW846 8260B
Chlorobenzene	ND	170000	160000	ug/L	94		SW846 8260B
	ND	170000	160000	ug/L	94	0.30	SW846 8260B
Dibromochloromethane	ND	170000	150000	ug/L	93		SW846 8260B
	ND	170000	150000	ug/L	90	2.7	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	170000	210000	ug/L	125		SW846 8260B
	ND	170000	200000	ug/L	120	4.1	SW846 8260B
Methyl acetate	ND	170000	140000	ug/L	82		SW846 8260B
	ND	170000	130000	ug/L	75	8.7	SW846 8260B
Chloroethane	ND	170000	120000	ug/L	73		SW846 8260B
	ND	170000	120000	ug/L	72	2.0	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	170000	130000	ug/L	81		SW846 8260B
	ND	170000	130000	ug/L	79	2.4	SW846 8260B
Cyclohexane	ND	170000	170000	ug/L	99		SW846 8260B
	ND	170000	160000	ug/L	98	1.3	SW846 8260B
Methylcyclohexane	ND	170000	170000	ug/L	99		SW846 8260B
	ND	170000	160000	ug/L	96	3.7	SW846 8260B
Chloroform	ND	170000	160000	ug/L	93		SW846 8260B
	ND	170000	140000	ug/L	86	7.4	SW846 8260B
Chloromethane	ND	170000	110000	ug/L	65		SW846 8260B
	ND	170000	110000	ug/L	65	0.08	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	170000	170000	ug/L	103		SW846 8260B
	ND	170000	180000	ug/L	105	2.3	SW846 8260B
2-Chlorotoluene	ND	170000	150000	ug/L	88		SW846 8260B
	ND	170000	150000	ug/L	92	4.2	SW846 8260B
Methyl tert-butyl ether	ND	170000	130000	ug/L	81		SW846 8260B
	ND	170000	130000	ug/L	79	2.4	SW846 8260B
n-Hexane	ND	170000	180000	ug/L	105		SW846 8260B
	ND	170000	170000	ug/L	104	1.8	SW846 8260B
4-Chlorotoluene	ND	170000	150000	ug/L	88		SW846 8260B
	ND	170000	150000	ug/L	91	2.5	SW846 8260B
2-Chloroethyl vinyl ether	ND	170000	120000	ug/L	70		SW846 8260B
	ND	170000	140000	ug/L	81	15	SW846 8260B
Acetonitrile	ND	500000	450000	ug/L	90		SW846 8260B
	ND	500000	460000	ug/L	92	1.9	SW846 8260B
1,2-Dibromoethane	ND	170000	150000	ug/L	92		SW846 8260B
	ND	170000	150000	ug/L	92	0.72	SW846 8260B
Acrolein	ND	500000	350000	ug/L	70		SW846 8260B
	ND	500000	340000	ug/L	68	3.5	SW846 8260B
Acrylonitrile	ND	500000	480000	ug/L	95		SW846 8260B
	ND	500000	430000	ug/L	86	11	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Vinyl acetate	ND	170000	170000	ug/L	104		SW846 8260B
	ND	170000	170000	ug/L	100	3.6	SW846 8260B
Dibromomethane	ND	170000	160000	ug/L	95		SW846 8260B
	ND	170000	150000	ug/L	92	3.2	SW846 8260B
1,2-Dichlorobenzene	ND	170000	160000	ug/L	95		SW846 8260B
	ND	170000	160000	ug/L	97	2.2	SW846 8260B
1,3-Dichlorobenzene	ND	170000	150000	ug/L	91		SW846 8260B
	ND	170000	150000	ug/L	93	2.0	SW846 8260B
1,4-Dichlorobenzene	ND	170000	150000	ug/L	89		SW846 8260B
	ND	170000	150000	ug/L	92	3.0	SW846 8260B
Iodomethane	ND	170000	190000	ug/L	114		SW846 8260B
	ND	170000	190000	ug/L	112	1.6	SW846 8260B
Isopropyl ether	ND	170000	150000	ug/L	87		SW846 8260B
	ND	170000	140000	ug/L	85	2.1	SW846 8260B
Dichlorodifluoromethane	ND	170000	160000	ug/L	96		SW846 8260B
	ND	170000	160000	ug/L	93	2.5	SW846 8260B
1,1-Dichloroethane	ND	170000	160000	ug/L	95		SW846 8260B
	ND	170000	150000	ug/L	90	5.3	SW846 8260B
1,2-Dichloroethane	ND	170000	140000	ug/L	84		SW846 8260B
	ND	170000	130000	ug/L	80	4.6	SW846 8260B
cis-1,2-Dichloroethene	480000	170000	680000	ug/L	120		SW846 8260B
	480000	170000	620000	ug/L	84	9.0	SW846 8260B
trans-1,2-Dichloroethene	ND	170000	160000	ug/L	98		SW846 8260B
	ND	170000	160000	ug/L	94	3.6	SW846 8260B
1,1-Dichloroethene	ND	170000	180000	ug/L	105		SW846 8260B
	ND	170000	170000	ug/L	101	4.3	SW846 8260B
1,2-Dichloropropane	ND	170000	160000	ug/L	97		SW846 8260B
	ND	170000	160000	ug/L	98	1.3	SW846 8260B
1,3-Dichloropropane	ND	170000	160000	ug/L	95		SW846 8260B
	ND	170000	160000	ug/L	98	4.1	SW846 8260B
2,2-Dichloropropane	ND	170000	130000	ug/L	79		SW846 8260B
	ND	170000	130000	ug/L	79	0.92	SW846 8260B
cis-1,3-Dichloropropene	ND	170000	130000	ug/L	81		SW846 8260B
	ND	170000	140000	ug/L	87	6.8	SW846 8260B
trans-1,3-Dichloropropene	ND	170000	150000	ug/L	87		SW846 8260B
	ND	170000	150000	ug/L	91	4.2	SW846 8260B
1,1-Dichloropropene	ND	170000	150000	ug/L	93		SW846 8260B
	ND	170000	140000	ug/L	87	6.2	SW846 8260B
Ethylbenzene	ND	170000	150000	ug/L	92		SW846 8260B
	ND	170000	150000	ug/L	93	0.80	SW846 8260B
Hexachlorobutadiene	ND	170000	130000	ug/L	78		SW846 8260B
	ND	170000	130000	ug/L	76	2.4	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Isopropylbenzene	ND	170000	150000	ug/L	91		SW846 8260B
	ND	170000	150000	ug/L	90	0.79	SW846 8260B
p-Isopropyltoluene	ND	170000	150000	ug/L	92		SW846 8260B
	ND	170000	160000	ug/L	97	4.8	SW846 8260B
Methylene chloride	ND	170000	170000	ug/L	102		SW846 8260B
	ND	170000	160000	ug/L	97	4.9	SW846 8260B
Naphthalene	ND	170000	140000	ug/L	84		SW846 8260B
	ND	170000	150000	ug/L	89	5.5	SW846 8260B
n-Propylbenzene	ND	170000	150000	ug/L	90		SW846 8260B
	ND	170000	150000	ug/L	93	3.3	SW846 8260B
Styrene	ND	170000	160000	ug/L	96		SW846 8260B
	ND	170000	150000	ug/L	92	4.3	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	170000	160000	ug/L	96		SW846 8260B
	ND	170000	150000	ug/L	92	3.4	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	170000	160000	ug/L	98		SW846 8260B
	ND	170000	160000	ug/L	99	0.07	SW846 8260B
Tetrachloroethene	94000	170000	260000	ug/L	103		SW846 8260B
	94000	170000	270000	ug/L	103	0.08	SW846 8260B
Toluene	ND	170000	180000	ug/L	100		SW846 8260B
	ND	170000	180000	ug/L	99	1.2	SW846 8260B
1,2,3-Trichlorobenzene	ND	170000	140000	ug/L	85		SW846 8260B
	ND	170000	150000	ug/L	90	6.3	SW846 8260B
1,2,4-Trichloro- benzene	ND	170000	140000	ug/L	82		SW846 8260B
	ND	170000	150000	ug/L	88	7.5	SW846 8260B
1,1,1-Trichloroethane	ND	170000	150000	ug/L	88		SW846 8260B
	ND	170000	140000	ug/L	86	2.1	SW846 8260B
1,1,2-Trichloroethane	ND	170000	170000	ug/L	103		SW846 8260B
	ND	170000	170000	ug/L	103	0.17	SW846 8260B
Trichloroethene	ND	170000	150000	ug/L	89		SW846 8260B
	ND	170000	150000	ug/L	88	1.2	SW846 8260B
Trichlorofluoromethane	ND	170000	150000	ug/L	87		SW846 8260B
	ND	170000	150000	ug/L	88	1.2	SW846 8260B
1,2,3-Trichloropropane	ND	170000	150000	ug/L	90		SW846 8260B
	ND	170000	150000	ug/L	90	0.34	SW846 8260B
1,2,4-Trimethylbenzene	ND	170000	160000	ug/L	93		SW846 8260B
	ND	170000	160000	ug/L	97	3.5	SW846 8260B
1,3,5-Trimethylbenzene	ND	170000	150000	ug/L	91		SW846 8260B
	ND	170000	160000	ug/L	97	6.7	SW846 8260B
Vinyl chloride	ND	170000	130000	ug/L	80		SW846 8260B
	ND	170000	130000	ug/L	78	2.1	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0L170577 Work Order #...: MCG0R1AJ-MS Matrix.....: WATER
 MS Lot-Sample #: A0L170409-002 MCG0R1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
m-Xylene & p-Xylene	ND	330000	320000	ug/L	96		SW846 8260B
	ND	330000	310000	ug/L	94	2.0	SW846 8260B
o-Xylene	ND	170000	160000	ug/L	95		SW846 8260B
	ND	170000	150000	ug/L	92	2.9	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(75 - 121)
	85	(75 - 121)
1,2-Dichloroethane-d4	78	(63 - 129)
	73	(63 - 129)
Toluene-d8	97	(74 - 115)
	99	(74 - 115)
4-Bromofluorobenzene	99	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

END OF REPORT

ANALYTICAL REPORT

PROJECT NO. KC001590.0003.00002

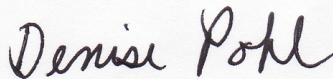
TRW OGV OU2

Lot #: A0L230533

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
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Approved for release.
Denise Pohl
Project Manager
1/13/2011 4:54 PM

January 13, 2011

TestAmerica Laboratories, Inc.

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Sample Summary	11
Shipping and Receiving Documents	13
Inorganic/Metals Data	17
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CASE NARRATIVE

CASE NARRATIVE

A0L230533

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGV OU2 Site, project number KC001590.0003.00002. The sample was received December 23, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.9°C.

METALS

No ICP Trace Form IX was provided for batch(es) 0363112. The serial dilution was performed on a different sample from the same QC batch(es).

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0L230533

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
NO DETECTABLE PARAMETERS				

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0L230533

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0L230533

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
MCRME	001	IDW	SOIL-20101222	12/22/10	14:25

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS



Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1¹⁴Project Number/Name KC001590.0003.00002Project Location TRW 06V 002Laboratory TA - North CantonProject Manager Denise PohlSampler(s)/Affiliation Larry Benoit/km/ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE						Remarks	Total
IDW Soil - 20101222	S	12/22/10/1425	4	RCRA 8 Metals by TCLP Method						Call Tim Lloyd 913-492-0900	4

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/
Containers

Relinquished by: <u>Larry Benoit</u>	Organization: <u>ARCADIS</u>	Date <u>12/22/10</u>	Time <u>1530</u>	Seal Intact?
Received by: <u>Ch. Lloyd</u>	Organization: <u>TRW</u>	Date <u>12/23/10</u>	Time <u>1050</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date <u> / / </u>	Time _____	Seal Intact?
Received by: _____	Organization: _____	Date <u> / / </u>	Time _____	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person☒ Common Carrier Fed Ex

SPECIFY

☐ Lab Courier☐ Other _____

SPECIFY

AG 05-12/01

North Canton

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: ADL230533

Client Articulos Project OGU OU2 By: Ch 2
Cooler Received on 12/27/10 Opened on 12/23/10 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐
TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐
1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
If YES, Quantity 1 Quantity Unsalvageable _____
Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☐
Were custody seals on the bottle(s)? Yes ☐ No ☒
If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☐ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 2.9 °C See back of form for multiple coolers/temps ☐
METHOD: IR ☒ Other ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☐ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒
Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample
Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium
Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-
(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative

North Canton Facility

[illegible]

Discrepancies Cont'd:

[illegible]

METALS DATA

TRW Automotive

Client Sample ID: IDW SOIL-20101222

TCLP Metals

Lot-Sample #...: A0L230533-001

Matrix.....: SO

Date Sampled...: 12/22/10 14:25 Date Received...: 12/23/10

Leach Date.....: 12/28/10 Leach Batch #...: P036201

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0363112						
Arsenic	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCRME1AD
		Dilution Factor: 1		Analysis Time...: 12:56	Analyst ID.....: 001637	
		Instrument ID...: I6				
Barium	ND	10.0	mg/L	SW846 6010B	12/30-01/03/11	MCRME1AE
		Dilution Factor: 1		Analysis Time...: 12:56	Analyst ID.....: 001637	
		Instrument ID...: I6				
Cadmium	ND	0.10	mg/L	SW846 6010B	12/30-01/03/11	MCRME1AF
		Dilution Factor: 1		Analysis Time...: 12:56	Analyst ID.....: 001637	
		Instrument ID...: I6				
Chromium	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCRME1AG
		Dilution Factor: 1		Analysis Time...: 12:56	Analyst ID.....: 001637	
		Instrument ID...: I6				
Lead	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCRME1AH
		Dilution Factor: 1		Analysis Time...: 12:56	Analyst ID.....: 001637	
		Instrument ID...: I6				
Selenium	ND	0.25	mg/L	SW846 6010B	12/30-01/03/11	MCRME1AJ
		Dilution Factor: 1		Analysis Time...: 12:56	Analyst ID.....: 001637	
		Instrument ID...: I6				
Silver	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCRME1AK
		Dilution Factor: 1		Analysis Time...: 12:56	Analyst ID.....: 001637	
		Instrument ID...: I6				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/30/10	MCRME1AC
		Dilution Factor: 1		Analysis Time...: 14:33	Analyst ID.....: 001576	
		Instrument ID...: H1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A0L230533

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0L280000-066 Prep Batch #... 0363112						
Leach Date.....: 12/28/10 Leach Batch #... P036201						
Arsenic	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCTEA1AA
		Dilution Factor: 1				
		Analysis Time...: 11:35		Analyst ID.....: 001637		Instrument ID...: I6
Barium	ND	10.0	mg/L	SW846 6010B	12/30-01/03/11	MCTEA1AC
		Dilution Factor: 1				
		Analysis Time...: 11:35		Analyst ID.....: 001637		Instrument ID...: I6
Cadmium	ND	0.10	mg/L	SW846 6010B	12/30-01/03/11	MCTEA1AD
		Dilution Factor: 1				
		Analysis Time...: 11:35		Analyst ID.....: 001637		Instrument ID...: I6
Chromium	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCTEA1AE
		Dilution Factor: 1				
		Analysis Time...: 11:35		Analyst ID.....: 001637		Instrument ID...: I6
Lead	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCTEA1AF
		Dilution Factor: 1				
		Analysis Time...: 11:35		Analyst ID.....: 001637		Instrument ID...: I6
Selenium	ND	0.25	mg/L	SW846 6010B	12/30-01/03/11	MCTEA1AG
		Dilution Factor: 1				
		Analysis Time...: 11:35		Analyst ID.....: 001637		Instrument ID...: I6
Silver	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCTEA1AH
		Dilution Factor: 1				
		Analysis Time...: 11:35		Analyst ID.....: 001637		Instrument ID...: I6
Mercury	ND	0.0020	mg/L	SW846 7470A	12/30/10	MCTEA1AJ
		Dilution Factor: 1				
		Analysis Time...: 14:17		Analyst ID.....: 001576		Instrument ID...: H1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A0L230533

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0L290000-112 Prep Batch #...: 0363112						
Arsenic	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCVQN1AA
		Dilution Factor: 1				
		Analysis Time...: 11:41		Analyst ID.....: 001637	Instrument ID...: I6	
Barium	ND	10.0	mg/L	SW846 6010B	12/30-01/03/11	MCVQN1AC
		Dilution Factor: 1				
		Analysis Time...: 11:41		Analyst ID.....: 001637	Instrument ID...: I6	
Cadmium	ND	0.10	mg/L	SW846 6010B	12/30-01/03/11	MCVQN1AD
		Dilution Factor: 1				
		Analysis Time...: 11:41		Analyst ID.....: 001637	Instrument ID...: I6	
Chromium	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCVQN1AE
		Dilution Factor: 1				
		Analysis Time...: 11:41		Analyst ID.....: 001637	Instrument ID...: I6	
Lead	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCVQN1AF
		Dilution Factor: 1				
		Analysis Time...: 11:41		Analyst ID.....: 001637	Instrument ID...: I6	
Selenium	ND	0.25	mg/L	SW846 6010B	12/30-01/03/11	MCVQN1AG
		Dilution Factor: 1				
		Analysis Time...: 11:41		Analyst ID.....: 001637	Instrument ID...: I6	
Silver	ND	0.50	mg/L	SW846 6010B	12/30-01/03/11	MCVQN1AH
		Dilution Factor: 1				
		Analysis Time...: 11:41		Analyst ID.....: 001637	Instrument ID...: I6	
Mercury	ND	0.0020	mg/L	SW846 7470A	12/30/10	MCVQN1AJ
		Dilution Factor: 1				
		Analysis Time...: 14:18		Analyst ID.....: 001576	Instrument ID...: H1	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A0L230533

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0L290000-112 Prep Batch #... 0363112					
Arsenic	99	(50 - 150)	SW846 6010B	12/30-01/03/11	MCVQN1AK
		Dilution Factor: 1	Analysis Time..: 11:47	Analyst ID.....: 001637	
		Instrument ID...: I6			
Barium	102	(50 - 150)	SW846 6010B	12/30-01/03/11	MCVQN1AL
		Dilution Factor: 1	Analysis Time..: 11:47	Analyst ID.....: 001637	
		Instrument ID...: I6			
Cadmium	98	(50 - 150)	SW846 6010B	12/30-01/03/11	MCVQN1AM
		Dilution Factor: 1	Analysis Time..: 11:47	Analyst ID.....: 001637	
		Instrument ID...: I6			
Chromium	101	(50 - 150)	SW846 6010B	12/30-01/03/11	MCVQN1AN
		Dilution Factor: 1	Analysis Time..: 11:47	Analyst ID.....: 001637	
		Instrument ID...: I6			
Lead	99	(50 - 150)	SW846 6010B	12/30-01/03/11	MCVQN1AP
		Dilution Factor: 1	Analysis Time..: 11:47	Analyst ID.....: 001637	
		Instrument ID...: I6			
Selenium	100	(50 - 150)	SW846 6010B	12/30-01/03/11	MCVQN1AQ
		Dilution Factor: 1	Analysis Time..: 11:47	Analyst ID.....: 001637	
		Instrument ID...: I6			
Silver	106	(50 - 150)	SW846 6010B	12/30-01/03/11	MCVQN1AR
		Dilution Factor: 1	Analysis Time..: 11:47	Analyst ID.....: 001637	
		Instrument ID...: I6			
Mercury	104	(50 - 150)	SW846 7470A	12/30/10	MCVQN1AT
		Dilution Factor: 1	Analysis Time..: 14:19	Analyst ID.....: 001576	
		Instrument ID...: H1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A0L230533

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample# : A0L290000-112 Prep Batch #... : 0363112							
Arsenic	2.0	2.0	mg/L	99	SW846 6010B	12/30-01/03/11	MCVQN1AK
			Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 001637	
			Instrument ID..: I6				
Barium	2.0	2.0	mg/L	102	SW846 6010B	12/30-01/03/11	MCVQN1AL
			Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 001637	
			Instrument ID..: I6				
Cadmium	0.050	0.049	mg/L	98	SW846 6010B	12/30-01/03/11	MCVQN1AM
			Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 001637	
			Instrument ID..: I6				
Chromium	0.20	0.20	mg/L	101	SW846 6010B	12/30-01/03/11	MCVQN1AN
			Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 001637	
			Instrument ID..: I6				
Lead	0.50	0.49	mg/L	99	SW846 6010B	12/30-01/03/11	MCVQN1AP
			Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 001637	
			Instrument ID..: I6				
Selenium	2.0	2.0	mg/L	100	SW846 6010B	12/30-01/03/11	MCVQN1AQ
			Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 001637	
			Instrument ID..: I6				
Silver	0.050	0.053	mg/L	106	SW846 6010B	12/30-01/03/11	MCVQN1AR
			Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 001637	
			Instrument ID..: I6				
Mercury	0.0050	0.0052	mg/L	104	SW846 7470A	12/30/10	MCVQN1AT
			Dilution Factor: 1		Analysis Time..: 14:19	Analyst ID.....: 001576	
			Instrument ID..: H1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A0L230533

Matrix.....: SOLID

Date Sampled...: 12/21/10 08:16 Date Received...: 12/22/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0L220436-001 Prep Batch #... : 0363112							
Leach Date..... : 12/28/10 Leach Batch #... : P036201							
Arsenic	109	(50 - 150)			SW846 6010B	12/30-01/03/11	MCN0C1AL
	103	(50 - 150)	5.7	(0-20)	SW846 6010B	12/30-01/03/11	MCN0C1AM
Dilution Factor: 5							
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637							
Barium	111	(50 - 150)			SW846 6010B	12/30-01/03/11	MCN0C1AN
	105	(50 - 150)	6.1	(0-20)	SW846 6010B	12/30-01/03/11	MCN0C1AP
Dilution Factor: 5							
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637							
Cadmium	111	(50 - 150)			SW846 6010B	12/30-01/03/11	MCN0C1AQ
	103	(50 - 150)	6.5	(0-20)	SW846 6010B	12/30-01/03/11	MCN0C1AR
Dilution Factor: 5							
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637							
Chromium	114	(50 - 150)			SW846 6010B	12/30-01/03/11	MCN0C1AT
	106	(50 - 150)	6.4	(0-20)	SW846 6010B	12/30-01/03/11	MCN0C1AU
Dilution Factor: 5							
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637							
Lead	112	(50 - 150)			SW846 6010B	12/30-01/03/11	MCN0C1AV
	105	(50 - 150)	6.0	(0-20)	SW846 6010B	12/30-01/03/11	MCN0C1AW
Dilution Factor: 5							
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637							
Selenium	107	(50 - 150)			SW846 6010B	12/30-01/03/11	MCN0C1AX
	101	(50 - 150)	5.8	(0-20)	SW846 6010B	12/30-01/03/11	MCN0C1A0
Dilution Factor: 5							
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637							
Silver	115	(50 - 150)			SW846 6010B	12/30-01/03/11	MCN0C1A1
	108	(50 - 150)	5.8	(0-20)	SW846 6010B	12/30-01/03/11	MCN0C1A2
Dilution Factor: 5							
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637							
Mercury	105	(50 - 150)			SW846 7470A	12/30/10	MCN0C1A3
	107	(50 - 150)	1.7	(0-20)	SW846 7470A	12/30/10	MCN0C1A4
Dilution Factor: 1							
Analysis Time...: 14:22 Instrument ID...: H1 Analyst ID.....: 001576							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A0L230533

Matrix.....: SOLID

Date Sampled...: 12/21/10 08:16 Date Received...: 12/22/10

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0L220436-001 Prep Batch #... : 0363112									
Leach Date..... : 12/28/10 Leach Batch #... : P036201									
Arsenic									
ND		5.0	5.4	mg/L	109		SW846 6010B	12/30-01/03/11	MCN0C1AL
ND		5.0	5.1	mg/L	103	5.7	SW846 6010B	12/30-01/03/11	MCN0C1AM
Dilution Factor: 5									
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637									
Barium									
ND		50.0	56.0	mg/L	111		SW846 6010B	12/30-01/03/11	MCN0C1AN
ND		50.0	52.7	mg/L	105	6.1	SW846 6010B	12/30-01/03/11	MCN0C1AP
Dilution Factor: 5									
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637									
Cadmium									
ND		1.0	1.2	mg/L	111		SW846 6010B	12/30-01/03/11	MCN0C1AQ
ND		1.0	1.1	mg/L	103	6.5	SW846 6010B	12/30-01/03/11	MCN0C1AR
Dilution Factor: 5									
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637									
Chromium									
ND		5.0	6.1	mg/L	114		SW846 6010B	12/30-01/03/11	MCN0C1AT
ND		5.0	5.7	mg/L	106	6.4	SW846 6010B	12/30-01/03/11	MCN0C1AU
Dilution Factor: 5									
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637									
Lead									
ND		5.0	5.7	mg/L	112		SW846 6010B	12/30-01/03/11	MCN0C1AV
ND		5.0	5.4	mg/L	105	6.0	SW846 6010B	12/30-01/03/11	MCN0C1AW
Dilution Factor: 5									
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637									
Selenium									
ND		1.0	1.1	mg/L	107		SW846 6010B	12/30-01/03/11	MCN0C1AX
ND		1.0	1.0	mg/L	101	5.8	SW846 6010B	12/30-01/03/11	MCN0C1A0
Dilution Factor: 5									
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637									
Silver									
ND		1.0	1.1	mg/L	115		SW846 6010B	12/30-01/03/11	MCN0C1A1
ND		1.0	1.1	mg/L	108	5.8	SW846 6010B	12/30-01/03/11	MCN0C1A2
Dilution Factor: 5									
Analysis Time...: 12:37 Instrument ID...: I6 Analyst ID.....: 001637									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A0L230533

Matrix.....: SOLID

Date Sampled...: 12/21/10 08:16 Date Received...: 12/22/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury	ND	0.0050	0.0053	mg/L	105		SW846 7470A	12/30/10	MCN0C1A3
	ND	0.0050	0.0054	mg/L	107	1.7	SW846 7470A	12/30/10	MCN0C1A4
				Dilution Factor: 1					
				Analysis Time...: 14:22		Instrument ID...: H1		Analyst ID.....: 001576	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

END OF REPORT

ANALYTICAL REPORT

Job Number: 240-18654-1

Job Description: TRW-OU2 - Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
2/11/2013 5:49 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
02/11/2013

cc: Mr. John Shonfelt
Kirsten Wright

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TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

CASE NARRATIVE

Client: TRW Automotive

Project: TRW-OU2 - Oak Grove Village

Report Number: 240-18654-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 6020 Strontium analysis was performed at the TestAmerica Pittsburgh Laboratory.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/12/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-105(20121210) (240-18654-1), MW-101(20121210) (240-18654-3) and TRIP BLANK (240-18654-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/19/2012.

Several analytes were detected in method blank MB 240-69407/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Sample MW-105(20121210) (240-18654-1) was analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/20/2012 and analyzed on 12/21/2012.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

Several analytes were detected in method blank MB 240-69534/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

DISSOLVED METALS (ICPMS)

Sample MW-105(20121210) (240-18654-1) was analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020.

The samples were prepared on 02/04/2013 and analyzed on 02/06/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

Strontium was detected in method blank MB 180-62876/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

ALKALINITY

Samples MW-105(20121210) (240-18654-1) and MW-101(20121210) (240-18654-3) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 12/17/2012.

Alkalinity failed the recovery criteria low for the MS/MSD of sample 240-18659-1 in batch 240-69192.

Refer to the QC report for details.

No other difficulties were encountered during the alkalinity analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Sample MW-105(20121210) (240-18654-1) was analyzed for dissolved ammonia in accordance with SM 4500 NH3 F. The samples were analyzed on 12/27/2012.

No difficulties were encountered during the ammonia analysis.

All quality control parameters were within the acceptance limits.

Ammonia was detected in method blank MB 240-70347/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

DISSOLVED PHOSPHORUS

Sample MW-105(20121210) (240-18654-1) was analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 12/31/2012.

No difficulties were encountered during the phosphorus analysis.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Sample MW-105(20121210) (240-18654-1) was analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/12/2012.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

Nitrite as N and Orthophosphate failed the recovery criteria low for the MSD of sample 240-18605-2 in batch 240-68286. Orthophosphate exceeded the rpd limit.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

DISSOLVED ANIONS

Sample MW-105(20121210) (240-18654-1) was analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/12/2012 and 12/31/2012.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18654-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18654-1	MW-105(20121210)					
cis-1,2-Dichloroethene		0.23	J	1.0	ug/L	8260B
Dichlorodifluoromethane		2.1		1.0	ug/L	8260B
1,1-Dichloroethane		2.5		1.0	ug/L	8260B
Dichlorofluoromethane		38		2.0	ug/L	8260B
Tetrachloroethene		0.47	J	1.0	ug/L	8260B
Trichloroethene		1.1		1.0	ug/L	8260B
Trichlorofluoromethane		7.8		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		320		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		110	J B	200	ug/L	6010B
Boron		34	J	200	ug/L	6010B
Calcium		70000	B	5000	ug/L	6010B
Potassium		3100	J	5000	ug/L	6010B
Magnesium		39000	B	5000	ug/L	6010B
Manganese		4.1	J B	15	ug/L	6010B
Sodium		7500		5000	ug/L	6010B
Zinc		11	J B	20	ug/L	6010B
Lead		2.1	J	3.0	ug/L	6010B
SiO2, Silica		13000		1100	ug/L	6010B
Strontium		95	B	10	ug/L	6020
Chloride-Dissolved		8.2		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.8		0.10	mg/L	9056A
Sulfate-Dissolved		8.2		1.0	mg/L	9056A
Ammonia-Dissolved		0.090	J B	0.20	mg/L	SM4500 NH3 -F
240-18654-3	MW-101(20121210)					
cis-1,2-Dichloroethene		0.65	J	1.0	ug/L	8260B
Dichlorodifluoromethane		3.0		1.0	ug/L	8260B
1,1-Dichloroethane		0.33	J	1.0	ug/L	8260B
Dichlorofluoromethane		21		2.0	ug/L	8260B
Tetrachloroethene		0.32	J	1.0	ug/L	8260B
Trichloroethene		2.3		1.0	ug/L	8260B
Trichlorofluoromethane		21		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		280		5.0	mg/L	SM 2320B

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-18654-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B
Metals (ICP)	TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL NC		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography	TAL NC	SW846 9056A	
Sample Filtration, Field			FIELD_FLTRD
Alkalinity	TAL NC	SM SM 2320B	
Phosphorus	TAL NC	SM SM 4500 P E	
Phosphorus, Total	TAL NC		MCAWW 365.2/365.3/365
Sample Filtration, Field			FIELD_FLTRD
Ammonia	TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL PIT	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL PIT		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL NC = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-18654-1

Method	Analyst	Analyst ID
SW846 8260B	Quayle, Rick	RQ
SW846 6010B	Toth, Roger	RT
SW846 6020	Reinheimer, Bill	BR
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Colon, Olguita	OC
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Grossman, Lucas	LG

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-18654-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-18654-1	MW-105(20121210)	Water	12/10/2012 1310	12/12/2012 0800
240-18654-3	MW-101(20121210)	Water	12/11/2012 1325	12/12/2012 0800
240-18654-4TB	TRIP BLANK	Water	12/11/2012 0000	12/12/2012 0800

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-105(20121210)

Lab Sample ID: 240-18654-1

Date Sampled: 12/10/2012 1310

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69407

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX1542.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/19/2012 1825

Final Weight/Volume: 5 mL

Prep Date: 12/19/2012 1825

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.23	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.1		0.31	1.0
1,1-Dichloroethane	2.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	38		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.47	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-105(20121210)

Lab Sample ID: 240-18654-1

Date Sampled: 12/10/2012 1310

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69407	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX1542.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 1825			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1825				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.1		0.17	1.0
Trichlorofluoromethane	7.8		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	93		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-101(20121210)

Lab Sample ID: 240-18654-3

Date Sampled: 12/11/2012 1325

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69407	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX1544.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 1907			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1907				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.65	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.0		0.31	1.0
1,1-Dichloroethane	0.33	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	21		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.32	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-101(20121210)

Lab Sample ID: 240-18654-3

Date Sampled: 12/11/2012 1325

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69407	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX1544.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 1907			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1907				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.3		0.17	1.0
Trichlorofluoromethane	21		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		66 - 117
Dibromofluoromethane (Surr)	106		75 - 121
1,2-Dichloroethane-d4 (Surr)	95		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18654-4TB

Date Sampled: 12/11/2012 0000

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69407

Instrument ID: A3UX10

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXX1545.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/19/2012 1929

Final Weight/Volume: 5 mL

Prep Date: 12/19/2012 1929

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18654-4TB

Date Sampled: 12/11/2012 0000

Client Matrix: Water

Date Received: 12/12/2012 0800

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69407	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX1545.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 1929			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1929				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

Client Sample ID: MW-105(20121210)

Lab Sample ID: 240-18654-1

Date Sampled: 12/10/2012 1310

Client Matrix: Water

Date Received: 12/12/2012 0800

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-69973	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-69534	Lab File ID:	I9122112A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/21/2012 1744			Final Weight/Volume:	50 mL
Prep Date:	12/20/2012 0817				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	110	J B	0.67	200
Boron	34	J	34	200
Calcium	70000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3100	J	72	5000
Magnesium	39000	B	34	5000
Manganese	4.1	J B	0.41	15
Sodium	7500		590	5000
Nickel	40	U	3.2	40
Zinc	11	J B	5.0	20
Lead	2.1	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2032			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	95	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

General Chemistry**Client Sample ID: MW-105(20121210)**

Lab Sample ID: 240-18654-1

Date Sampled: 12/10/2012 1310

Client Matrix: Water

Date Received: 12/12/2012 0800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.2		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68285	Analysis Date: 12/12/2012 1241						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68286	Analysis Date: 12/12/2012 1241						
Fluoride-Dissolved	1.0	U	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-70733	Analysis Date: 12/31/2012 2303						
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68286	Analysis Date: 12/12/2012 1241						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68285	Analysis Date: 12/12/2012 1241						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68286	Analysis Date: 12/12/2012 1241						
Sulfate-Dissolved	8.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68285	Analysis Date: 12/12/2012 1241						
Bicarbonate Alkalinity as CaCO3	320		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69192	Analysis Date: 12/17/2012 1227						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69192	Analysis Date: 12/17/2012 1227						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-70776	Analysis Date: 12/31/2012 1357						
Prep Batch: 240-70668	Prep Date: 12/31/2012 0634						
Ammonia-Dissolved	0.090	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-70347	Analysis Date: 12/27/2012 1457						

Analytical Data

Client: TRW Automotive

Job Number: 240-18654-1

General Chemistry**Client Sample ID:** MW-101(20121210)

Lab Sample ID: 240-18654-3

Date Sampled: 12/11/2012 1325

Client Matrix: Water

Date Received: 12/12/2012 0800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bicarbonate Alkalinity as CaCO ₃	280		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69192		Analysis Date: 12/17/2012 1250					
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69192		Analysis Date: 12/17/2012 1250					

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-18654-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-69407					
LCS 240-69407/4	Lab Control Sample	T	Water	8260B	
MB 240-69407/5	Method Blank	T	Water	8260B	
240-18654-1	MW-105(20121210)	T	Water	8260B	
240-18654-3	MW-101(20121210)	T	Water	8260B	
240-18654-4TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

Metals

Prep Batch: 180-62876					
LCS 180-62876/2-A	Lab Control Sample	R	Water	3005A	
MB 180-62876/1-A	Method Blank	R	Water	3005A	
240-18654-1	MW-105(20121210)	D	Water	3005A	
Analysis Batch:180-63381					
LCS 180-62876/2-A	Lab Control Sample	R	Water	6020	180-62876
MB 180-62876/1-A	Method Blank	R	Water	6020	180-62876
240-18654-1	MW-105(20121210)	D	Water	6020	180-62876
Prep Batch: 240-69534					
LCS 240-69534/2-A	Lab Control Sample	R	Water	3005A	
MB 240-69534/1-A	Method Blank	R	Water	3005A	
240-18654-1	MW-105(20121210)	D	Water	3005A	
Analysis Batch:240-69973					
LCS 240-69534/2-A	Lab Control Sample	R	Water	6010B	240-69534
MB 240-69534/1-A	Method Blank	R	Water	6010B	240-69534
240-18654-1	MW-105(20121210)	D	Water	6010B	240-69534

Report Basis

D = Dissolved

R = Total Recoverable

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-68285					
LCS 240-68285/5	Lab Control Sample	T	Water	9056A	
MB 240-68285/4	Method Blank	T	Water	9056A	
240-18654-1	MW-105(20121210)	D	Water	9056A	
240-18654-E-3 MSMS	Matrix Spike	D	Water	9056A	
Analysis Batch:240-68286					
LCS 240-68286/5	Lab Control Sample	T	Water	9056A	
MB 240-68286/4	Method Blank	T	Water	9056A	
240-18654-1	MW-105(20121210)	D	Water	9056A	
240-18654-E-3 MSMS	Matrix Spike	D	Water	9056A	
Analysis Batch:240-69192					
LCS 240-69192/4	Lab Control Sample	T	Water	SM 2320B	
MB 240-69192/5	Method Blank	T	Water	SM 2320B	
240-18654-1	MW-105(20121210)	T	Water	SM 2320B	
240-18654-3	MW-101(20121210)	T	Water	SM 2320B	
Analysis Batch:240-70347					
LCS 240-70347/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-70347/7	Method Blank	T	Water	SM4500 NH3 -F	
240-18654-1	MW-105(20121210)	D	Water	SM4500 NH3 -F	
240-18654-1MS	Matrix Spike	D	Water	SM4500 NH3 -F	
240-18654-1MSD	Matrix Spike Duplicate	D	Water	SM4500 NH3 -F	
Prep Batch: 240-70668					
LCS 240-70668/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-70668/10-A	Method Blank	T	Water	365.2/365.3/365	
240-18654-1	MW-105(20121210)	D	Water	365.2/365.3/365	
Analysis Batch:240-70733					
LCS 240-70733/38	Lab Control Sample	T	Water	9056A	
MB 240-70733/37	Method Blank	T	Water	9056A	
240-18654-1	MW-105(20121210)	D	Water	9056A	
240-18654-E-2 MSMS	Matrix Spike	D	Water	9056A	
Analysis Batch:240-70776					
LCS 240-70668/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-70668
MB 240-70668/10-A	Method Blank	T	Water	SM 4500 P E	240-70668
240-18654-1	MW-105(20121210)	D	Water	SM 4500 P E	240-70668

Report Basis

D = Dissolved

T = Total

TestAmerica Canton

Client: TRW Automotive

Job Number: 240-18654-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-18654-1	MW-105(20121210)	92	103	93	97
240-18654-3	MW-101(20121210)	89	106	95	94
240-18654-4	TRIP BLANK	90	103	96	93
MB 240-69407/5		93	100	93	94
LCS 240-69407/4		105	96	93	99

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-69407

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-69407/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/19/2012 1554
Prep Date: 12/19/2012 1554
Leach Date: N/A

Analysis Batch: 240-69407
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX10
Lab File ID: UXX1535.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.694	J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.667	J	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.614	J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-69407

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-69407/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/19/2012 1554
 Prep Date: 12/19/2012 1554
 Leach Date: N/A

Analysis Batch: 240-69407
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX10
 Lab File ID: UXX1535.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	0.753	J	0.17	1.0
1,2,4-Trichlorobenzene	0.419	J	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	66 - 117
Dibromofluoromethane (Surr)	100	75 - 121
1,2-Dichloroethane-d4 (Surr)	93	63 - 129
Toluene-d8 (Surr)	94	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Lab Control Sample - Batch: 240-69407

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-69407/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/19/2012 1532
 Prep Date: 12/19/2012 1532
 Leach Date: N/A

Analysis Batch: 240-69407
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX10
 Lab File ID: UXX1534.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.97	100	83 - 112	
Bromobenzene	10.0	9.25	92	76 - 115	
Bromoform	10.0	8.95	89	40 - 131	
Bromomethane	10.0	7.60	76	11 - 185	
Carbon tetrachloride	10.0	9.75	98	66 - 128	
Chlorobenzene	10.0	9.37	94	85 - 110	
Chloroethane	10.0	9.27	93	25 - 153	
Chloroform	10.0	9.36	94	79 - 117	
Chloromethane	10.0	9.14	91	44 - 126	
2-Chlorotoluene	10.0	9.44	94	76 - 116	
4-Chlorotoluene	10.0	9.60	96	77 - 115	
cis-1,2-Dichloroethene	10.0	9.87	99	80 - 113	
cis-1,3-Dichloropropene	10.0	9.12	91	61 - 115	
Dibromomethane	10.0	9.75	97	81 - 120	
1,2-Dichlorobenzene	10.0	9.59	96	81 - 110	
1,3-Dichlorobenzene	10.0	9.67	97	80 - 110	
1,4-Dichlorobenzene	10.0	9.28	93	82 - 110	
Bromodichloromethane	10.0	9.87	99	72 - 121	
Dichlorodifluoromethane	10.0	7.42	74	19 - 129	
1,1-Dichloroethane	10.0	9.83	98	82 - 115	
1,2-Dichloroethane	10.0	9.27	93	71 - 127	
1,1-Dichloroethene	10.0	9.82	98	78 - 131	
1,2-Dichloropropane	10.0	10.1	101	81 - 115	
1,3-Dichloropropane	10.0	8.94	89	79 - 116	
2,2-Dichloropropane	10.0	10.0	100	50 - 129	
1,1-Dichloropropene	10.0	9.56	96	83 - 114	
Ethylbenzene	10.0	9.89	99	83 - 112	
Hexachlorobutadiene	10.0	7.86	79	36 - 134	
Isopropylbenzene	10.0	10.3	103	75 - 114	
p-Isopropyltoluene	10.0	10.5	105	74 - 120	
Methylene Chloride	10.0	10.6	106	66 - 131	
m-Xylene & p-Xylene	20.0	20.1	101	83 - 113	
Naphthalene	10.0	7.52	75	32 - 141	
n-Butylbenzene	10.0	9.93	99	66 - 125	
N-Propylbenzene	10.0	10.0	100	74 - 121	
o-Xylene	10.0	10.3	103	83 - 113	
sec-Butylbenzene	10.0	9.85	99	70 - 117	
Styrene	10.0	10.2	102	79 - 114	
tert-Butylbenzene	10.0	9.21	92	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	9.61	96	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	7.99	80	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Lab Control Sample - Batch: 240-69407

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-69407/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/19/2012 1532
 Prep Date: 12/19/2012 1532
 Leach Date: N/A

Analysis Batch: 240-69407
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX10
 Lab File ID: UXX1534.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	9.86	99	79 - 114	
Toluene	10.0	9.60	96	84 - 111	
trans-1,2-Dichloroethene	10.0	9.96	100	83 - 117	
trans-1,3-Dichloropropene	10.0	8.90	89	58 - 117	
1,2,3-Trichlorobenzene	10.0	8.35	83	54 - 126	
1,2,4-Trichlorobenzene	10.0	8.78	88	48 - 135	
1,1,1-Trichloroethane	10.0	9.89	99	74 - 118	
1,1,2-Trichloroethane	10.0	9.03	90	80 - 112	
Trichloroethene	10.0	10.2	102	76 - 117	
Trichlorofluoromethane	10.0	9.21	92	49 - 157	
1,2,3-Trichloropropane	10.0	7.86	79	73 - 129	
1,2,4-Trimethylbenzene	10.0	10.1	101	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.97	100	72 - 118	
Vinyl chloride	10.0	8.94	89	53 - 127	
Bromochloromethane	10.0	9.57	96	77 - 120	
1,2-Dibromoethane	10.0	8.98	90	79 - 113	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	105	66 - 117
Dibromofluoromethane (Surr)	96	75 - 121
1,2-Dichloroethane-d4 (Surr)	93	63 - 129
Toluene-d8 (Surr)	99	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-69534

Lab Sample ID: MB 240-69534/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/21/2012 1713
Prep Date: 12/20/2012 0817
Leach Date: N/A

Analysis Batch: 240-69973
Prep Batch: 240-69534
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9122112A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	1.43	J	0.67	200
Boron	200	U	34	200
Calcium	304	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	75.5	J	34	5000
Manganese	0.569	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	11.7	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-69534

Lab Sample ID: LCS 240-69534/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/21/2012 1717
Prep Date: 12/20/2012 0817
Leach Date: N/A

Analysis Batch: 240-69973
Prep Batch: 240-69534
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9122112A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	1910	95	80 - 120	
Boron	1000	987	99	80 - 120	
Calcium	50000	48400	97	80 - 120	
Chromium	200	199	100	80 - 120	
Iron	1000	993	99	80 - 120	
Potassium	50000	47200	94	80 - 120	
Magnesium	50000	48000	96	80 - 120	
Manganese	500	494	99	80 - 120	
Sodium	50000	47600	95	80 - 120	
Nickel	500	481	96	80 - 120	
Zinc	500	492	98	80 - 120	
Lead	500	485	97	80 - 120	
Lithium	1000	952	95	80 - 120	
SiO2, Silica	2140	2240	105	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 180-62876

Lab Sample ID: MB 180-62876/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/06/2013 2019
 Prep Date: 02/04/2013 1342
 Leach Date: N/A

Analysis Batch: 180-63381
 Prep Batch: 180-62876
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
 Lab File ID: M30206A1.xml
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.115	J	0.018	10

Lab Control Sample - Batch: 180-62876

Lab Sample ID: LCS 180-62876/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/06/2013 2024
 Prep Date: 02/04/2013 1342
 Leach Date: N/A

Analysis Batch: 180-63381
 Prep Batch: 180-62876
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
 Lab File ID: M30206A1.xml
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	927	93	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-68285

Method: 9056A
Preparation: N/A

Lab Sample ID: MB 240-68285/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/12/2012 0929
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-68285
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: GARFUNKEL
Lab File ID: 4240-0015752-004.d
Initial Weight/Volume: 5 mL
Final Weight/Volume:

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-68285

Method: 9056A
Preparation: N/A

Lab Sample ID: LCS 240-68285/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/12/2012 0947
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-68285
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: GARFUNKEL
Lab File ID: 5240-0015752-005.d
Initial Weight/Volume: 5 mL
Final Weight/Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	52.6	105	90 - 110	
Bromide-Dissolved	10.0	10.3	103	90 - 110	
Sulfate-Dissolved	50.0	49.2	98	90 - 110	

Matrix Spike - Batch: 240-68285

Method: 9056A
Preparation: N/A

Lab Sample ID: 240-18654-E-3 MS
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/12/2012 1338
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-68285
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: GARFUNKEL
Lab File ID: 18240-0015752-018.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 25 uL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	7.8	50.0	61.2	107	80 - 120	
Bromide-Dissolved	0.10 J	10.0	9.59	95	80 - 120	
Sulfate-Dissolved	7.3	50.0	56.3	98	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-68286

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-68286/4	Analysis Batch:	240-68286	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	4240-0015752-004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 0929	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-68286

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-68286/5	Analysis Batch:	240-68286	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0015752-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 0947	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.34	94	90 - 110	
Nitrate as N-Dissolved	2.50	2.50	100	90 - 110	
Orthophosphate-Dissolved	2.50	2.41	96	90 - 110	

Matrix Spike - Batch: 240-68286

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-18654-E-3 MS	Analysis Batch:	240-68286	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	18240-0015752-018.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1338	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	0.10	2.50	2.31			
Nitrate as N-Dissolved	0.82	2.50	3.21			
Orthophosphate-Dissolved	0.50	2.50	2.87			

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-70733

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-70733/37	Analysis Batch:	240-70733	Instrument ID:	VERONICA
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	37240-0016313-037.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/31/2012 2223	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-70733

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-70733/38	Analysis Batch:	240-70733	Instrument ID:	VERONICA
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	38240-0016313-038.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/31/2012 2243	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	50.7	101	90 - 110	
Fluoride-Dissolved	2.50	2.38	95	90 - 110	
Bromide-Dissolved	10.0	10.7	107	90 - 110	
Sulfate-Dissolved	50.0	50.9	102	90 - 110	

Matrix Spike - Batch: 240-70733

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-18654-E-2 MS	Analysis Batch:	240-70733	Instrument ID:	VERONICA
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	41240-0016313-041.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/31/2012 2343	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	30	50.0	79.9	100	80 - 120	
Fluoride-Dissolved	0.019 J	2.50	2.36	94	80 - 120	
Bromide-Dissolved	0.50 U	10.0	10.8	108	80 - 120	
Sulfate-Dissolved	7.5	50.0	58.6	102	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-69192

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-69192/5	Analysis Batch:	240-69192	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121712alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2012 1053	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-69192

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-69192/4	Analysis Batch:	240-69192	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121712alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2012 1047	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	39.8	42.7	107	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-70668

Lab Sample ID: MB 240-70668/10-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/31/2012 1405
 Prep Date: 12/31/2012 0629
 Leach Date: N/A

Analysis Batch: 240-70776
 Prep Batch: 240-70668
 Leach Batch: N/A
 Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365

Instrument ID: BARNEY
 Lab File ID: TP123112.xls
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as P-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-70668

Lab Sample ID: LCS 240-70668/11-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/31/2012 1405
 Prep Date: 12/31/2012 0630
 Leach Date: N/A

Analysis Batch: 240-70776
 Prep Batch: 240-70668
 Leach Batch: N/A
 Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365

Instrument ID: BARNEY
 Lab File ID: TP123112.xls
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as P-Dissolved	5.50	5.71	104	53 - 134	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18654-1

Method Blank - Batch: 240-70347

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	MB 240-70347/7	Analysis Batch:	240-70347	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122712B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/27/2012 1023	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.0574	J	0.035	0.20

Lab Control Sample - Batch: 240-70347

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	LCS 240-70347/8	Analysis Batch:	240-70347	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122712B.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/27/2012 1436	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	8.93	9.26	104	85 - 114	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-70347

Method: SM4500 NH3 -F
Preparation: N/A

MS Lab Sample ID:	240-18654-1	Analysis Batch:	240-70347	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122712B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/27/2012 1500			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-18654-1	Analysis Batch:	240-70347	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122712B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/27/2012 1503			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia-Dissolved	90	94	75 - 125	4	20		

TestAmerica Canton Sample Receipt Form/Narrative

Login # : 18654

Client ARCADIS Site Name TRW-002 By: Derry Burns
Cooler Received on 12/12/12 Opened on 12/12/12 (Signature)
FedEx: 1st Ord Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____
TestAmerica Cooler # A909 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 4G (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 5G (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 8 (CF 0 °C) Observed Sample Temp. 1.6 °C Corrected Sample Temp. 1.6 °C

☐ Multiple
on Back2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA-Were custody seals on the bottle(s)? Yes No3. Shippers' packing slip attached to the cooler(s)? Yes No4. Did custody papers accompany the sample(s)? Yes No5. Were the custody papers relinquished & signed in the appropriate place? Yes No6. Did all bottles arrive in good condition (Unbroken)? Yes No7. Could all bottle labels be reconciled with the COC? Yes No8. Were correct bottle(s) used for the test(s) indicated? Yes No9. Sufficient quantity received to perform indicated analyses? Yes No10. Were sample(s) at the correct pH upon receipt? Yes No NA11. Were VOAs on the COC? Yes No12. Were air bubbles >6 mm in any VOA vials? Yes No NA13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO₃; Sulfuric Acid Lot# 051012-H₂SO₄; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

[illegible]

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-18654-1

Login Number: 18654
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 02/01/13 11:15 AM


Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4"$).	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 240-18762-1

Job Description: TRW- OU2 - Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
2/11/2013 3:29 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
02/11/2013

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

CASE NARRATIVE

Client: TRW Automotive

Project: TRW- OU2 - Oak Grove Village

Report Number: 240-18762-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 6020 Strontium analysis was performed at the TestAmerica Pittsburgh Laboratory.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client

RECEIPT

The samples were received on 12/13/2012 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 4.8° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-107S(121212) (240-18762-1), MW-107D(121212) (240-18762-2), TRIP BLANK (240-18762-3) and MW-108D(121212) (240-18762-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/20/2012 and 12/21/2012.

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Hexachlorobutadiene were detected in method blank MB 240-69586/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

1,2,3-Trichlorobenzene, Hexachlorobutadiene and Naphthalene were detected in method blank MB 240-69796/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,3-Trichloropropane, 1,3-Dichloropropane and N-Propylbenzene failed the recovery criteria high for LCS 240-69586/4. Refer to the QC report for details.

1,1,1-Trichloroethane failed the recovery criteria low for the MSD of sample MW-107D(121212)MSD (240-18762-2) in batch 240-69586.

Tetrachloroethene and Trichloroethene failed the recovery criteria high for the MS of sample 240-18800-4 in batch 240-69796.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples MW-107S(121212) (240-18762-1)[2X] and MW-108D(121212) (240-18762-4)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-107S(121212) (240-18762-1), MW-107D(121212) (240-18762-2) and MW-108D(121212) (240-18762-4) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/27/2012 and 12/28/2012 and analyzed on 12/28/2012 and 12/30/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Several analytes were detected in method blank MB 240-70176/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-70398/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

SiO₂, Silica failed the recovery criteria low for the MS of sample 240-18839-3 in batch 240-70550.

SiO₂, Silica failed the recovery criteria high for the MSD of sample 240-18839-3 in batch 240-70550.

Refer to the QC report for details.

DISSOLVED METALS (ICPMS)

Samples MW-107S(121212) (240-18762-1), MW-107D(121212) (240-18762-2) and MW-108D(121212) (240-18762-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 02/04/2013 and analyzed on 02/06/2013.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Strontium was detected in method blank MB 180-62876/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

ALKALINITY

Samples MW-107S(121212) (240-18762-1), MW-107D(121212) (240-18762-2) and MW-108D(121212) (240-18762-4) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 12/18/2012.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Samples MW-107S(121212) (240-18762-1), MW-107D(121212) (240-18762-2) and MW-108D(121212) (240-18762-4) were analyzed for dissolved ammonia in accordance with SM 4500 NH₃ F. The samples were analyzed on 12/31/2012.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED PHOSPHORUS

Samples MW-107S(121212) (240-18762-1), MW-107D(121212) (240-18762-2) and MW-108D(121212) (240-18762-4) were analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 01/03/2013.

No difficulties were encountered during the phosphorus analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-107S(121212) (240-18762-1), MW-107D(121212) (240-18762-2) and MW-108D(121212) (240-18762-4) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/13/2012.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 68642 for orthophosphate were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The MS/MSD pair also met RPD criteria. Since the sample is now out of hold the results are reported.

Orthophosphate failed the recovery criteria high for the MS of sample MW-107D(121212)MS (240-18762-2) in batch 240-68642.

Orthophosphate failed the recovery criteria high for the MSD of sample MW-107D(121212)MSD (240-18762-2) in batch 240-68642.

Refer to the QC report for details.

No other difficulties were encountered during the anions analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-107S(121212) (240-18762-1), MW-107D(121212) (240-18762-2) and MW-108D(121212) (240-18762-4) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/13/2012.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18762-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18762-1	MW-107S(121212)					
Dichlorodifluoromethane		1.3		1.0	ug/L	8260B
1,1-Dichloroethane		0.59	J	1.0	ug/L	8260B
Dichlorofluoromethane		56		4.0	ug/L	8260B
Naphthalene		0.54	J B	1.0	ug/L	8260B
Tetrachloroethene		0.44	J	1.0	ug/L	8260B
1,2,3-Trichlorobenzene		0.33	J B	1.0	ug/L	8260B
1,1,1-Trichloroethane		0.24	J	1.0	ug/L	8260B
Trichloroethene		3.2		1.0	ug/L	8260B
Trichlorofluoromethane		39		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		230		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		46	J B	200	ug/L	6010B
Calcium		52000	B	5000	ug/L	6010B
Potassium		990	J B	5000	ug/L	6010B
Magnesium		30000	B	5000	ug/L	6010B
Manganese		2.6	J B	15	ug/L	6010B
Sodium		2800	J	5000	ug/L	6010B
Zinc		180	B	20	ug/L	6010B
SiO2, Silica		8800	B	1100	ug/L	6010B
Strontium		48	B	10	ug/L	6020
Chloride-Dissolved		3.1		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.70		0.10	mg/L	9056A
Fluoride-Dissolved		0.073	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.28	J	0.50	mg/L	9056A
Sulfate-Dissolved		20		1.0	mg/L	9056A
Ammonia-Dissolved		0.041	J	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18762-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Analyte						
240-18762-2	MW-107D(121212)					
Dichlorofluoromethane		1.1	J	2.0	ug/L	8260B
Trichlorofluoromethane		1.2		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		180		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		160	J B	200	ug/L	6010B
Calcium		40000	B	5000	ug/L	6010B
Potassium		1200	J	5000	ug/L	6010B
Magnesium		25000	B	5000	ug/L	6010B
Manganese		1.8	J B	15	ug/L	6010B
Sodium		3400	J	5000	ug/L	6010B
Zinc		180	B	20	ug/L	6010B
SiO2, Silica		9300		1100	ug/L	6010B
Strontium		43	B	10	ug/L	6020
Chloride-Dissolved		0.98	J	1.0	mg/L	9056A
Nitrate as N-Dissolved		0.029	J	0.10	mg/L	9056A
Fluoride-Dissolved		0.059	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.14	J	0.50	mg/L	9056A
Sulfate-Dissolved		15		1.0	mg/L	9056A
240-18762-4	MW-108D(121212)					
cis-1,2-Dichloroethene		0.38	J	1.0	ug/L	8260B
Dichlorodifluoromethane		3.1		1.0	ug/L	8260B
1,1-Dichloroethane		0.94	J	1.0	ug/L	8260B
Dichlorofluoromethane		35		4.0	ug/L	8260B
Tetrachloroethene		0.38	J	1.0	ug/L	8260B
Trichloroethene		2.1		1.0	ug/L	8260B
Trichlorofluoromethane		20		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		200		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		160	J B	200	ug/L	6010B
Calcium		45000	B	5000	ug/L	6010B
Potassium		1100	J B	5000	ug/L	6010B
Magnesium		27000	B	5000	ug/L	6010B
Sodium		3500	J	5000	ug/L	6010B
Zinc		11	J B	20	ug/L	6010B
SiO2, Silica		9700	B	1100	ug/L	6010B
Strontium		48	B	10	ug/L	6020
Chloride-Dissolved		4.4		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.32		0.10	mg/L	9056A
Fluoride-Dissolved		0.042	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.16	J	0.50	mg/L	9056A
Sulfate-Dissolved		13		1.0	mg/L	9056A
Ammonia-Dissolved		0.061	J	0.20	mg/L	SM4500 NH3 -F

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-18762-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B
Metals (ICP)	TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL NC		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography	TAL NC	SW846 9056A	
Sample Filtration, Field			FIELD_FLTRD
Alkalinity	TAL NC	SM SM 2320B	
Phosphorus	TAL NC	SM SM 4500 P E	
Phosphorus, Total	TAL NC		MCAWW 365.2/365.3/365
Sample Filtration, Field			FIELD_FLTRD
Ammonia	TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL PIT	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL PIT		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL NC = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-18762-1

Method	Analyst	Analyst ID
SW846 8260B	Williams, Larry	LW
SW846 6010B	Toth, Roger	RT
SW846 6020	Reinheimer, Bill	BR
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Colon, Olguita	OC
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Grossman, Lucas	LG

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-18762-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-18762-1	MW-107S(121212)	Water	12/12/2012 1055	12/13/2012 0915
240-18762-2	MW-107D(121212)	Water	12/12/2012 0935	12/13/2012 0915
240-18762-2MS	MW-107D(121212)	Water	12/12/2012 0935	12/13/2012 0915
240-18762-2MSD	MW-107D(121212)	Water	12/12/2012 0935	12/13/2012 0915
240-18762-2DU	MW-107D(121212)	Water	12/12/2012 0935	12/13/2012 0915
240-18762-3TB	TRIP BLANK	Water	12/12/2012 0000	12/13/2012 0915
240-18762-4	MW-108D(121212)	Water	12/12/2012 1245	12/13/2012 0915

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69796

Instrument ID: A3UX17

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXR4522.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/21/2012 2239

Final Weight/Volume: 5 mL

Prep Date: 12/21/2012 2239

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.3		0.31	1.0
1,1-Dichloroethane	0.59	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.54	J B	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.44	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69796	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR4522.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/21/2012 2239			Final Weight/Volume:	5 mL
Prep Date:	12/21/2012 2239				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	0.33	J B	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.24	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.2		0.17	1.0
Trichlorofluoromethane	39		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	83		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
Toluene-d8 (Surr)	88		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9631.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1913			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1913				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	56		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	84		66 - 117
Dibromofluoromethane (Surr)	79		75 - 121
1,2-Dichloroethane-d4 (Surr)	95		63 - 129
Toluene-d8 (Surr)	89		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107D(121212)

Lab Sample ID: 240-18762-2

Date Sampled: 12/12/2012 0935

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9635.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 2043			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 2043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	1.1	J	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U *	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U *	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U *	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107D(121212)

Lab Sample ID: 240-18762-2

Date Sampled: 12/12/2012 0935

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9635.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 2043			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 2043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U *	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.2		0.21	1.0
1,2,3-Trichloropropane	1.0	U *	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	79		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	86		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18762-3TB

Client Matrix: Water

Date Sampled: 12/12/2012 0000

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9632.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1935			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1935				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U *	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U *	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U *	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18762-3TB

Client Matrix: Water

Date Sampled: 12/12/2012 0000

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9632.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1935			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1935				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U *	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U *	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	81		66 - 117
Dibromofluoromethane (Surr)	80		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	86		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9633.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1958			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1958				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.38	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.1		0.31	1.0
1,1-Dichloroethane	0.94	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U *	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U *	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U *	0.18	1.0
Tetrachloroethene	0.38	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69586	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM9633.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/20/2012 1958			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 1958				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U *	0.27	1.0
Trichloroethene	2.1		0.17	1.0
Trichlorofluoromethane	20		0.21	1.0
1,2,3-Trichloropropane	1.0	U *	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	81		66 - 117
Dibromofluoromethane (Surr)	81		75 - 121
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
Toluene-d8 (Surr)	86		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69796	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR4508.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/21/2012 1725			Final Weight/Volume:	5 mL
Prep Date:	12/21/2012 1725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	35		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	83		66 - 117
Dibromofluoromethane (Surr)	109		75 - 121
1,2-Dichloroethane-d4 (Surr)	99		63 - 129
Toluene-d8 (Surr)	93		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70550	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70176	Lab File ID:	I9122812A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/28/2012 2107			Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0713				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	46	J B	0.67	200
Boron	200	U	34	200
Calcium	52000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	990	J B	72	5000
Magnesium	30000	B	34	5000
Manganese	2.6	J B	0.41	15
Sodium	2800	J	590	5000
Nickel	40	U	3.2	40
Zinc	180	B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	8800	B	14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2037			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	48	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-107D(121212)

Lab Sample ID: 240-18762-2

Date Sampled: 12/12/2012 0935

Client Matrix: Water

Date Received: 12/13/2012 0915

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70678	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70398	Lab File ID:	I9123012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/30/2012 0908			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0818				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	J B	0.67	200
Boron	200	U	34	200
Calcium	40000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J	72	5000
Magnesium	25000	B	34	5000
Manganese	1.8	J B	0.41	15
Sodium	3400	J	590	5000
Nickel	40	U	3.2	40
Zinc	180	B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9300		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2051			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	43	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Date Sampled: 12/12/2012 1245

Client Matrix: Water

Date Received: 12/13/2012 0915

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70550	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70176	Lab File ID:	I9122812A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/28/2012 2111			Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0713				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	J B	0.67	200
Boron	200	U	34	200
Calcium	45000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J B	72	5000
Magnesium	27000	B	34	5000
Manganese	15	U	0.41	15
Sodium	3500	J	590	5000
Nickel	40	U	3.2	40
Zinc	11	J B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9700	B	14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2114			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	48	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

General Chemistry**Client Sample ID:** MW-107S(121212)

Lab Sample ID: 240-18762-1

Date Sampled: 12/12/2012 1055

Client Matrix: Water

Date Received: 12/13/2012 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	3.1		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68641				Analysis Date: 12/13/2012 2002			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68642				Analysis Date: 12/13/2012 2002			
Fluoride-Dissolved	0.073	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68641				Analysis Date: 12/13/2012 2002			
Nitrate as N-Dissolved	0.70		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68642				Analysis Date: 12/13/2012 2002			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68641				Analysis Date: 12/13/2012 2002			
Orthophosphate-Dissolved	0.28	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68642				Analysis Date: 12/13/2012 2002			
Sulfate-Dissolved	20		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68641				Analysis Date: 12/13/2012 2002			
Bicarbonate Alkalinity as CaCO3	230		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69287				Analysis Date: 12/18/2012 1331			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69287				Analysis Date: 12/18/2012 1331			
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71049				Analysis Date: 01/03/2013 1528			
Prep Batch: 240-70937				Prep Date: 01/03/2013 0646			
Ammonia-Dissolved	0.041	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-70760				Analysis Date: 12/31/2012 0933			

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

General Chemistry**Client Sample ID: MW-107D(121212)**

Lab Sample ID: 240-18762-2

Date Sampled: 12/12/2012 0935

Client Matrix: Water

Date Received: 12/13/2012 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	0.98	J	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2035						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2035						
Fluoride-Dissolved	0.059	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2035						
Nitrate as N-Dissolved	0.029	J	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2035						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2035						
Orthophosphate-Dissolved	0.14	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2035						
Sulfate-Dissolved	15		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2035						
Bicarbonate Alkalinity as CaCO3	180		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1351						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1351						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71049	Analysis Date: 01/03/2013 1524						
Prep Batch: 240-70937	Prep Date: 01/03/2013 0638						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-70760	Analysis Date: 12/31/2012 0939						

Analytical Data

Client: TRW Automotive

Job Number: 240-18762-1

General Chemistry

Client Sample ID: MW-108D(121212)

Lab Sample ID: 240-18762-4

Client Matrix: Water

Date Sampled: 12/12/2012 1245

Date Received: 12/13/2012 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	4.4		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2018						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2018						
Fluoride-Dissolved	0.042	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2018						
Nitrate as N-Dissolved	0.32		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2018						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2018						
Orthophosphate-Dissolved	0.16	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68642	Analysis Date: 12/13/2012 2018						
Sulfate-Dissolved	13		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68641	Analysis Date: 12/13/2012 2018						
Bicarbonate Alkalinity as CaCO3	200		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1400						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69287	Analysis Date: 12/18/2012 1400						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71049	Analysis Date: 01/03/2013 1528						
Prep Batch: 240-70937	Prep Date: 01/03/2013 0647						
Ammonia-Dissolved	0.061	J	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-70760	Analysis Date: 12/31/2012 0956						

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-18762-1

Lab Section	Qualifier	Description
GC/MS VOA	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-69586					
LCS 240-69586/4	Lab Control Sample	T	Water	8260B	
MB 240-69586/5	Method Blank	T	Water	8260B	
240-18762-1	MW-107S(121212)	T	Water	8260B	
240-18762-2	MW-107D(121212)	T	Water	8260B	
240-18762-2MS	Matrix Spike	T	Water	8260B	
240-18762-2MSD	Matrix Spike Duplicate	T	Water	8260B	
240-18762-3TB	TRIP BLANK	T	Water	8260B	
240-18762-4	MW-108D(121212)	T	Water	8260B	
Analysis Batch:240-69796					
LCS 240-69796/4	Lab Control Sample	T	Water	8260B	
MB 240-69796/5	Method Blank	T	Water	8260B	
240-18762-1	MW-107S(121212)	T	Water	8260B	
240-18762-4	MW-108D(121212)	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 180-62876					
LCS 180-62876/2-A	Lab Control Sample	R	Water	3005A	
MB 180-62876/1-A	Method Blank	R	Water	3005A	
240-18762-1	MW-107S(121212)	D	Water	3005A	
240-18762-2	MW-107D(121212)	D	Water	3005A	
240-18762-2MS	Matrix Spike	D	Water	3005A	
240-18762-2MSD	Matrix Spike Duplicate	D	Water	3005A	
240-18762-4	MW-108D(121212)	D	Water	3005A	
Analysis Batch:180-63381					
LCS 180-62876/2-A	Lab Control Sample	R	Water	6020	180-62876
MB 180-62876/1-A	Method Blank	R	Water	6020	180-62876
240-18762-1	MW-107S(121212)	D	Water	6020	180-62876
240-18762-2	MW-107D(121212)	D	Water	6020	180-62876
240-18762-2MS	Matrix Spike	D	Water	6020	180-62876
240-18762-2MSD	Matrix Spike Duplicate	D	Water	6020	180-62876
240-18762-4	MW-108D(121212)	D	Water	6020	180-62876
Prep Batch: 240-70176					
LCS 240-70176/2-A	Lab Control Sample	R	Water	3005A	
MB 240-70176/1-A	Method Blank	R	Water	3005A	
240-18762-1	MW-107S(121212)	D	Water	3005A	
240-18762-4	MW-108D(121212)	D	Water	3005A	
Prep Batch: 240-70398					
LCS 240-70398/2-A	Lab Control Sample	R	Water	3005A	
MB 240-70398/1-A	Method Blank	R	Water	3005A	
240-18762-2	MW-107D(121212)	D	Water	3005A	
240-18762-2MS	Matrix Spike	D	Water	3005A	
240-18762-2MSD	Matrix Spike Duplicate	D	Water	3005A	
Analysis Batch:240-70550					
LCS 240-70176/2-A	Lab Control Sample	R	Water	6010B	240-70176
MB 240-70176/1-A	Method Blank	R	Water	6010B	240-70176
240-18762-1	MW-107S(121212)	D	Water	6010B	240-70176
240-18762-4	MW-108D(121212)	D	Water	6010B	240-70176
Analysis Batch:240-70678					
LCS 240-70398/2-A	Lab Control Sample	R	Water	6010B	240-70398
MB 240-70398/1-A	Method Blank	R	Water	6010B	240-70398
240-18762-2	MW-107D(121212)	D	Water	6010B	240-70398
240-18762-2MS	Matrix Spike	D	Water	6010B	240-70398
240-18762-2MSD	Matrix Spike Duplicate	D	Water	6010B	240-70398

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Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
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Report Basis

D = Dissolved

R = Total Recoverable

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-68641					
LCS 240-68641/6	Lab Control Sample	T	Water	9056A	
MB 240-68641/5	Method Blank	T	Water	9056A	
240-18762-1	MW-107S(121212)	D	Water	9056A	
240-18762-2	MW-107D(121212)	D	Water	9056A	
240-18762-2MS	Matrix Spike	D	Water	9056A	
240-18762-2MSD	Matrix Spike Duplicate	D	Water	9056A	
240-18762-4	MW-108D(121212)	D	Water	9056A	
Analysis Batch:240-68642					
LCS 240-68642/6	Lab Control Sample	T	Water	9056A	
MB 240-68642/5	Method Blank	T	Water	9056A	
240-18762-1	MW-107S(121212)	D	Water	9056A	
240-18762-2	MW-107D(121212)	D	Water	9056A	
240-18762-2MS	Matrix Spike	D	Water	9056A	
240-18762-2MSD	Matrix Spike Duplicate	D	Water	9056A	
240-18762-4	MW-108D(121212)	D	Water	9056A	
Analysis Batch:240-69287					
LCS 240-69287/3	Lab Control Sample	T	Water	SM 2320B	
MB 240-69287/4	Method Blank	T	Water	SM 2320B	
240-18762-1	MW-107S(121212)	T	Water	SM 2320B	
240-18762-2	MW-107D(121212)	T	Water	SM 2320B	
240-18762-2DU	Duplicate	T	Water	SM 2320B	
240-18762-4	MW-108D(121212)	T	Water	SM 2320B	
Analysis Batch:240-70760					
LCS 240-70760/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-70760/7	Method Blank	T	Water	SM4500 NH3 -F	
240-18762-1	MW-107S(121212)	D	Water	SM4500 NH3 -F	
240-18762-2	MW-107D(121212)	D	Water	SM4500 NH3 -F	
240-18762-2MS	Matrix Spike	D	Water	SM4500 NH3 -F	
240-18762-2MSD	Matrix Spike Duplicate	D	Water	SM4500 NH3 -F	
240-18762-4	MW-108D(121212)	D	Water	SM4500 NH3 -F	
Prep Batch: 240-70937					
LCS 240-70937/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-70937/10-A	Method Blank	T	Water	365.2/365.3/365	
240-18762-1	MW-107S(121212)	D	Water	365.2/365.3/365	
240-18762-2	MW-107D(121212)	D	Water	365.2/365.3/365	
240-18762-2MS	Matrix Spike	D	Water	365.2/365.3/365	
240-18762-2MSD	Matrix Spike Duplicate	D	Water	365.2/365.3/365	
240-18762-4	MW-108D(121212)	D	Water	365.2/365.3/365	

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Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-71049					
LCS 240-70937/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-70937
MB 240-70937/10-A	Method Blank	T	Water	SM 4500 P E	240-70937
240-18762-1	MW-107S(121212)	D	Water	SM 4500 P E	240-70937
240-18762-2	MW-107D(121212)	D	Water	SM 4500 P E	240-70937
240-18762-2MS	Matrix Spike	D	Water	SM 4500 P E	240-70937
240-18762-2MSD	Matrix Spike Duplicate	D	Water	SM 4500 P E	240-70937
240-18762-4	MW-108D(121212)	D	Water	SM 4500 P E	240-70937

Report Basis

D = Dissolved

T = Total

Client: TRW Automotive

Job Number: 240-18762-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-18762-1	MW-107S(121212)	84	79	95	89
240-18762-1	MW-107S(121212)	83	101	91	88
240-18762-2	MW-107D(121212)	82	79	94	86
240-18762-3	TRIP BLANK	81	80	94	86
240-18762-4	MW-108D(121212)	81	81	94	86
240-18762-4	MW-108D(121212)	83	109	99	93
MB 240-69586/5		80	76	92	86
MB 240-69796/5		84	102	93	91
LCS 240-69586/4		94	84	95	93
LCS 240-69796/4		93	103	93	92
240-18762-2 MS	MW-107D(121212) MS	90	80	91	87
240-18762-2 MSD	MW-107D(121212) MSD	88	79	91	88

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-69586

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-69586/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/20/2012 1246
 Prep Date: 12/20/2012 1246
 Leach Date: N/A

Analysis Batch: 240-69586
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX16
 Lab File ID: UXM9614.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.343	J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-69586

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-69586/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/20/2012 1246
 Prep Date: 12/20/2012 1246
 Leach Date: N/A

Analysis Batch: 240-69586
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX16
 Lab File ID: UXM9614.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	0.214	J	0.17	1.0
1,2,4-Trichlorobenzene	0.160	J	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	80	66 - 117
Dibromofluoromethane (Surr)	76	75 - 121
1,2-Dichloroethane-d4 (Surr)	92	63 - 129
Toluene-d8 (Surr)	86	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Lab Control Sample - Batch: 240-69586

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-69586/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/20/2012 1309
 Prep Date: 12/20/2012 1309
 Leach Date: N/A

Analysis Batch: 240-69586
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX16
 Lab File ID: UXM9615.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	11.0	110	83 - 112	
Bromobenzene	10.0	10.9	109	76 - 115	
Bromoform	10.0	7.21	72	40 - 131	
Bromomethane	10.0	7.13	71	11 - 185	
Carbon tetrachloride	10.0	7.80	78	66 - 128	
Chlorobenzene	10.0	10.8	108	85 - 110	
Chloroethane	10.0	8.36	84	25 - 153	
Chloroform	10.0	10.4	104	79 - 117	
Chloromethane	10.0	8.50	85	44 - 126	
2-Chlorotoluene	10.0	11.6	116	76 - 116	
4-Chlorotoluene	10.0	11.5	115	77 - 115	
cis-1,2-Dichloroethene	10.0	10.1	101	80 - 113	
cis-1,3-Dichloropropene	10.0	9.11	91	61 - 115	
Dibromomethane	10.0	11.4	114	81 - 120	
1,2-Dichlorobenzene	10.0	10.6	106	81 - 110	
1,3-Dichlorobenzene	10.0	10.4	104	80 - 110	
1,4-Dichlorobenzene	10.0	10.5	105	82 - 110	
Bromodichloromethane	10.0	10.4	104	72 - 121	
Dichlorodifluoromethane	10.0	10.2	102	19 - 129	
1,1-Dichloroethane	10.0	10.7	107	82 - 115	
1,2-Dichloroethane	10.0	11.9	119	71 - 127	
1,1-Dichloroethene	10.0	10.0	100	78 - 131	
1,2-Dichloropropane	10.0	11.3	113	81 - 115	
1,3-Dichloropropane	10.0	12.2	122	79 - 116	*
2,2-Dichloropropane	10.0	5.59	56	50 - 129	
1,1-Dichloropropene	10.0	10.8	108	83 - 114	
Ethylbenzene	10.0	11.1	111	83 - 112	
Hexachlorobutadiene	10.0	6.13	61	36 - 134	
Isopropylbenzene	10.0	10.5	105	75 - 114	
p-Isopropyltoluene	10.0	11.6	116	74 - 120	
Methylene Chloride	10.0	10.2	102	66 - 131	
m-Xylene & p-Xylene	20.0	22.3	111	83 - 113	
Naphthalene	10.0	12.6	126	32 - 141	
n-Butylbenzene	10.0	11.4	114	66 - 125	
N-Propylbenzene	10.0	12.2	122	74 - 121	*
o-Xylene	10.0	10.6	106	83 - 113	
sec-Butylbenzene	10.0	11.6	116	70 - 117	
Styrene	10.0	11.1	111	79 - 114	
tert-Butylbenzene	10.0	11.3	113	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	8.57	86	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	13.3	133	68 - 118	*

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Lab Control Sample - Batch: 240-69586

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-69586/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/20/2012 1309
 Prep Date: 12/20/2012 1309
 Leach Date: N/A

Analysis Batch: 240-69586
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX16
 Lab File ID: UXM9615.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	9.60	96	79 - 114	
Toluene	10.0	10.8	108	84 - 111	
trans-1,2-Dichloroethene	10.0	10.1	101	83 - 117	
trans-1,3-Dichloropropene	10.0	8.88	89	58 - 117	
1,2,3-Trichlorobenzene	10.0	9.45	94	54 - 126	
1,2,4-Trichlorobenzene	10.0	8.45	85	48 - 135	
1,1,1-Trichloroethane	10.0	8.05	80	74 - 118	
1,1,2-Trichloroethane	10.0	11.9	119	80 - 112	*
Trichloroethene	10.0	10.4	104	76 - 117	
Trichlorofluoromethane	10.0	8.79	88	49 - 157	
1,2,3-Trichloropropane	10.0	13.2	132	73 - 129	*
1,2,4-Trimethylbenzene	10.0	11.7	117	76 - 120	
1,3,5-Trimethylbenzene	10.0	11.6	116	72 - 118	
Vinyl chloride	10.0	8.18	82	53 - 127	
Bromochloromethane	10.0	9.70	97	77 - 120	
1,2-Dibromoethane	10.0	11.2	112	79 - 113	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	66 - 117
Dibromofluoromethane (Surr)	84	75 - 121
1,2-Dichloroethane-d4 (Surr)	95	63 - 129
Toluene-d8 (Surr)	93	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-69586**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/20/2012 2106
Prep Date: 12/20/2012 2106
Leach Date: N/A

Analysis Batch: 240-69586
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: A3UX16
Lab File ID: UXM9636.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/20/2012 2129
Prep Date: 12/20/2012 2129
Leach Date: N/A

Analysis Batch: 240-69586
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: A3UX16
Lab File ID: UXM9637.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	103	98	72 - 121	5	30		
Bromobenzene	97	95	71 - 116	1	30		
Bromoform	55	52	32 - 128	6	30		
Bromomethane	64	59	10 - 186	8	30		
Carbon tetrachloride	67	68	59 - 129	1	30		
Chlorobenzene	96	95	80 - 110	1	30		
Chloroethane	79	74	21 - 165	6	30		
Chloroform	96	92	76 - 118	5	30		
Chloromethane	78	76	33 - 132	2	30		
2-Chlorotoluene	102	99	69 - 117	3	30		
4-Chlorotoluene	105	101	71 - 116	4	30		
cis-1,2-Dichloroethene	92	89	70 - 120	3	30		
cis-1,3-Dichloropropene	72	70	51 - 110	3	30		
Dibromomethane	105	104	77 - 121	1	30		
1,2-Dichlorobenzene	97	95	75 - 111	2	30		
1,3-Dichlorobenzene	95	91	73 - 110	4	30		
1,4-Dichlorobenzene	94	91	75 - 110	3	30		
Bromodichloromethane	94	91	67 - 120	3	30		
Dichlorodifluoromethane	87	92	17 - 128	5	30		
1,1-Dichloroethane	99	95	79 - 116	4	30		
1,2-Dichloroethane	110	104	68 - 129	5	30		
1,1-Dichloroethene	93	91	74 - 135	3	30		
1,2-Dichloropropane	105	103	78 - 115	2	30		
1,3-Dichloropropane	112	111	74 - 118	1	30		
2,2-Dichloropropane	45	46	38 - 127	1	30		
1,1-Dichloropropene	98	95	80 - 114	4	30		
Ethylbenzene	98	97	75 - 116	1	30		
Hexachlorobutadiene	55	56	27 - 132	2	30		
Isopropylbenzene	92	89	68 - 116	3	30		
p-Isopropyltoluene	102	99	64 - 122	3	30		
Methylene Chloride	85	82	63 - 128	4	30		
m-Xylene & p-Xylene	100	97	75 - 117	2	30		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-69586**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/20/2012 2106
Prep Date: 12/20/2012 2106
Leach Date: N/A

Analysis Batch: 240-69586
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: A3UX16
Lab File ID: UXM9636.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/20/2012 2129
Prep Date: 12/20/2012 2129
Leach Date: N/A

Analysis Batch: 240-69586
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: A3UX16
Lab File ID: UXM9637.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Naphthalene	122	122	15 - 158	0	30		
n-Butylbenzene	99	97	56 - 127	2	30		
N-Propylbenzene	109	105	64 - 124	4	30		
o-Xylene	94	93	76 - 116	1	30		
sec-Butylbenzene	100	96	60 - 119	4	30		
Styrene	100	96	71 - 117	4	30		
tert-Butylbenzene	100	96	61 - 119	4	30		
1,1,1,2-Tetrachloroethane	74	76	64 - 118	3	30		
1,1,2,2-Tetrachloroethane	122	121	63 - 122	1	30		
Tetrachloroethene	86	84	70 - 117	2	30		
Toluene	98	96	78 - 114	1	30		
trans-1,2-Dichloroethene	92	89	80 - 119	3	30		
trans-1,3-Dichloropropene	68	69	46 - 116	1	30		
1,2,3-Trichlorobenzene	92	94	45 - 129	3	30		
1,2,4-Trichlorobenzene	80	81	38 - 138	1	30		
1,1,1-Trichloroethane	70	67	68 - 121	4	30		F
1,1,2-Trichloroethane	108	107	75 - 115	1	30		
Trichloroethene	95	91	66 - 120	4	30		
Trichlorofluoromethane	79	76	46 - 157	3	30		
1,2,3-Trichloropropane	121	118	67 - 132	2	30		
1,2,4-Trimethylbenzene	105	100	67 - 124	5	30		
1,3,5-Trimethylbenzene	103	100	63 - 121	3	30		
Vinyl chloride	78	77	49 - 130	1	30		
Bromochloromethane	88	88	73 - 121	0	30		
1,2-Dibromoethane	100	98	74 - 113	2	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
4-Bromofluorobenzene (Surr)	90		88	66 - 117			
Dibromofluoromethane (Surr)	80		79	75 - 121			
1,2-Dichloroethane-d4 (Surr)	91		91	63 - 129			
Toluene-d8 (Surr)	87		88	74 - 115			

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-69796

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-69796/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/21/2012 1341
Prep Date: 12/21/2012 1341
Leach Date: N/A

Analysis Batch: 240-69796
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX17
Lab File ID: UXR4498.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.303	J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.509	J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-69796

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-69796/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/21/2012 1341
 Prep Date: 12/21/2012 1341
 Leach Date: N/A

Analysis Batch: 240-69796
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX17
 Lab File ID: UXR4498.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	0.274	J	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	66 - 117
Dibromofluoromethane (Surr)	102	75 - 121
1,2-Dichloroethane-d4 (Surr)	93	63 - 129
Toluene-d8 (Surr)	91	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Lab Control Sample - Batch: 240-69796

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-69796/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/21/2012 1319
 Prep Date: 12/21/2012 1319
 Leach Date: N/A

Analysis Batch: 240-69796
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX17
 Lab File ID: UXR4497.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.46	95	83 - 112	
Bromobenzene	10.0	9.87	99	76 - 115	
Bromoform	10.0	9.69	97	40 - 131	
Bromomethane	10.0	7.30	73	11 - 185	
Carbon tetrachloride	10.0	10.7	107	66 - 128	
Chlorobenzene	10.0	9.47	95	85 - 110	
Chloroethane	10.0	5.63	56	25 - 153	
Chloroform	10.0	9.68	97	79 - 117	
Chloromethane	10.0	7.03	70	44 - 126	
2-Chlorotoluene	10.0	9.58	96	76 - 116	
4-Chlorotoluene	10.0	9.76	98	77 - 115	
cis-1,2-Dichloroethene	10.0	9.99	100	80 - 113	
cis-1,3-Dichloropropene	10.0	8.73	87	61 - 115	
Dibromomethane	10.0	9.82	98	81 - 120	
1,2-Dichlorobenzene	10.0	9.50	95	81 - 110	
1,3-Dichlorobenzene	10.0	9.68	97	80 - 110	
1,4-Dichlorobenzene	10.0	9.47	95	82 - 110	
Bromodichloromethane	10.0	9.54	95	72 - 121	
Dichlorodifluoromethane	10.0	8.59	86	19 - 129	
1,1-Dichloroethane	10.0	9.38	94	82 - 115	
1,2-Dichloroethane	10.0	9.13	91	71 - 127	
1,1-Dichloroethene	10.0	10.4	104	78 - 131	
1,2-Dichloropropane	10.0	9.09	91	81 - 115	
1,3-Dichloropropane	10.0	8.69	87	79 - 116	
2,2-Dichloropropane	10.0	8.67	87	50 - 129	
1,1-Dichloropropene	10.0	9.54	95	83 - 114	
Ethylbenzene	10.0	9.50	95	83 - 112	
Hexachlorobutadiene	10.0	9.21	92	36 - 134	
Isopropylbenzene	10.0	9.78	98	75 - 114	
p-Isopropyltoluene	10.0	9.20	92	74 - 120	
Methylene Chloride	10.0	8.70	87	66 - 131	
m-Xylene & p-Xylene	20.0	18.8	94	83 - 113	
Naphthalene	10.0	9.14	91	32 - 141	
n-Butylbenzene	10.0	8.64	86	66 - 125	
N-Propylbenzene	10.0	10.0	100	74 - 121	
o-Xylene	10.0	9.65	96	83 - 113	
sec-Butylbenzene	10.0	9.06	91	70 - 117	
Styrene	10.0	9.17	92	79 - 114	
tert-Butylbenzene	10.0	9.78	98	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	9.77	98	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	7.99	80	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Lab Control Sample - Batch: 240-69796

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-69796/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/21/2012 1319
 Prep Date: 12/21/2012 1319
 Leach Date: N/A

Analysis Batch: 240-69796
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX17
 Lab File ID: UXR4497.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	11.1	111	79 - 114	
Toluene	10.0	8.84	88	84 - 111	
trans-1,2-Dichloroethene	10.0	10.4	104	83 - 117	
trans-1,3-Dichloropropene	10.0	7.03	70	58 - 117	
1,2,3-Trichlorobenzene	10.0	9.90	99	54 - 126	
1,2,4-Trichlorobenzene	10.0	9.48	95	48 - 135	
1,1,1-Trichloroethane	10.0	9.94	99	74 - 118	
1,1,2-Trichloroethane	10.0	9.19	92	80 - 112	
Trichloroethene	10.0	11.3	113	76 - 117	
Trichlorofluoromethane	10.0	7.57	76	49 - 157	
1,2,3-Trichloropropane	10.0	9.15	92	73 - 129	
1,2,4-Trimethylbenzene	10.0	9.59	96	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.48	95	72 - 118	
Vinyl chloride	10.0	7.42	74	53 - 127	
Bromochloromethane	10.0	10.8	108	77 - 120	
1,2-Dibromoethane	10.0	9.35	93	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	93		66 - 117		
Dibromofluoromethane (Surr)	103		75 - 121		
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		
Toluene-d8 (Surr)	92		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-70176

Lab Sample ID: MB 240-70176/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/28/2012 1919
Prep Date: 12/27/2012 0713
Leach Date: N/A

Analysis Batch: 240-70550
Prep Batch: 240-70176
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9122812A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	1.09	J	0.67	200
Boron	200	U	34	200
Calcium	385	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	113	J	72	5000
Magnesium	67.2	J	34	5000
Manganese	1.72	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	18.0	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	20.8	J	14	1100

Lab Control Sample - Batch: 240-70176

Lab Sample ID: LCS 240-70176/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/28/2012 1923
Prep Date: 12/27/2012 0713
Leach Date: N/A

Analysis Batch: 240-70550
Prep Batch: 240-70176
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9122812A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	1850	93	80 - 120	
Boron	1000	982	98	80 - 120	
Calcium	50000	48800	98	80 - 120	
Chromium	200	192	96	80 - 120	
Iron	1000	1010	101	80 - 120	
Potassium	50000	47700	95	80 - 120	
Magnesium	50000	48600	97	80 - 120	
Manganese	500	484	97	80 - 120	
Sodium	50000	47100	94	80 - 120	
Nickel	500	502	100	80 - 120	
Zinc	500	499	100	80 - 120	
Lead	500	487	97	80 - 120	
Lithium	1000	946	95	80 - 120	
SiO2, Silica	2140	2350	110	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-70398

Lab Sample ID: MB 240-70398/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/30/2012 0853
Prep Date: 12/28/2012 0818
Leach Date: N/A

Analysis Batch: 240-70678
Prep Batch: 240-70398
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9123012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	1.61	J	0.67	200
Boron	200	U	34	200
Calcium	283	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	56.4	J	34	5000
Manganese	0.490	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	10.5	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-70398

Lab Sample ID: LCS 240-70398/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/30/2012 0857
Prep Date: 12/28/2012 0818
Leach Date: N/A

Analysis Batch: 240-70678
Prep Batch: 240-70398
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9123012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	1850	93	80 - 120	
Boron	1000	989	99	80 - 120	
Calcium	50000	47300	95	80 - 120	
Chromium	200	192	96	80 - 120	
Iron	1000	978	98	80 - 120	
Potassium	50000	45000	90	80 - 120	
Magnesium	50000	48200	96	80 - 120	
Manganese	500	472	94	80 - 120	
Sodium	50000	47600	95	80 - 120	
Nickel	500	475	95	80 - 120	
Zinc	500	478	96	80 - 120	
Lead	500	465	93	80 - 120	
Lithium	1000	934	93	80 - 120	
SiO2, Silica	2140	2270	106	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-70398**

**Method: 6010B
Preparation: 3005A
Dissolved**

MS Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/30/2012 0916
Prep Date: 12/28/2012 0818
Leach Date: N/A

Analysis Batch: 240-70678
Prep Batch: 240-70398
Leach Batch: N/A

Instrument ID: I9
Lab File ID: I9123012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/30/2012 0920
Prep Date: 12/28/2012 0818
Leach Date: N/A

Analysis Batch: 240-70678
Prep Batch: 240-70398
Leach Batch: N/A

Instrument ID: I9
Lab File ID: I9123012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Barium	97	96	75 - 125	1	20		
Boron	106	105	75 - 125	1	20		
Calcium	92	92	75 - 125	0	20		
Chromium	100	99	75 - 125	1	20		
Iron	101	100	75 - 125	1	20		
Potassium	94	94	75 - 125	0	20		
Magnesium	96	96	75 - 125	0	20		
Manganese	98	97	75 - 125	1	20		
Sodium	99	98	75 - 125	1	20		
Nickel	99	98	75 - 125	1	20		
Zinc	96	96	75 - 125	1	20		
Lead	97	96	75 - 125	1	20		
Lithium	98	97	75 - 125	1	20		
SiO ₂ , Silica	86	91	75 - 125	1	20	4	4

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 180-62876

Lab Sample ID: MB 180-62876/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/06/2013 2019
Prep Date: 02/04/2013 1342
Leach Date: N/A

Analysis Batch: 180-63381
Prep Batch: 180-62876
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
Lab File ID: M30206A1.xml
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.115	J	0.018	10

Lab Control Sample - Batch: 180-62876

Lab Sample ID: LCS 180-62876/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/06/2013 2024
Prep Date: 02/04/2013 1342
Leach Date: N/A

Analysis Batch: 180-63381
Prep Batch: 180-62876
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
Lab File ID: M30206A1.xml
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	927	93	80 - 120	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 180-62876

MS Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/06/2013 2101
Prep Date: 02/04/2013 1342
Leach Date: N/A

Analysis Batch: 180-63381
Prep Batch: 180-62876
Leach Batch: N/A

Method: 6020 Preparation: 3005A Dissolved

Instrument ID: M
Lab File ID: M30206A1.xml
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/06/2013 2106
Prep Date: 02/04/2013 1342
Leach Date: N/A

Analysis Batch: 180-63381
Prep Batch: 180-62876
Leach Batch: N/A

Instrument ID: M
Lab File ID: M30206A1.xml
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Strontium	91	91	75 - 125	0	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-68641

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-68641/5	Analysis Batch:	240-68641	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0015830-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1840	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-68641

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-68641/6	Analysis Batch:	240-68641	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0015830-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1856	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	51.8	104	90 - 110	
Fluoride-Dissolved	2.50	2.63	105	90 - 110	
Bromide-Dissolved	10.0	10.2	102	90 - 110	
Sulfate-Dissolved	50.0	48.8	98	90 - 110	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-68641**

**Method: 9056A
Preparation: N/A**

MS Lab Sample ID:	240-18762-2	Analysis Batch:	240-68641	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	13240-0015830-013.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 2051			Final Weight/Volume:	25 uL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-18762-2	Analysis Batch:	240-68641	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	14240-0015830-014.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 2107			Final Weight/Volume:	25 uL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride-Dissolved	109	111	80 - 120	2	20		
Fluoride-Dissolved	106	106	80 - 120	1	20		
Bromide-Dissolved	105	105	80 - 120	0	20		
Sulfate-Dissolved	108	107	80 - 120	1	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-68642

Method: 9056A
Preparation: N/A

Lab Sample ID: MB 240-68642/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/13/2012 1840
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-68642
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: SIMON
Lab File ID: 5240-0015830-005.d
Initial Weight/Volume: 5 mL
Final Weight/Volume:

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-68642

Method: 9056A
Preparation: N/A

Lab Sample ID: LCS 240-68642/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/13/2012 1856
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-68642
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: SIMON
Lab File ID: 6240-0015830-006.d
Initial Weight/Volume: 5 mL
Final Weight/Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.67	107	90 - 110	
Nitrate as N-Dissolved	2.50	2.57	103	90 - 110	
Orthophosphate-Dissolved	2.50	2.41	97	90 - 110	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-68642**

**Method: 9056A
Preparation: N/A**

MS Lab Sample ID:	240-18762-2	Analysis Batch:	240-68642	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	13240-0015830-013.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 2051			Final Weight/Volume:	25 uL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-18762-2	Analysis Batch:	240-68642	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	14240-0015830-014.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 2107			Final Weight/Volume:	25 uL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrite as N-Dissolved	108	108	80 - 120	0	20		
Nitrate as N-Dissolved	108	106	80 - 120	2	20		
Orthophosphate-Dissolved	150	144	80 - 120	4	20	F	F

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-69287

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-69287/4	Analysis Batch:	240-69287	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121812alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/18/2012 1101	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-69287

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-69287/3	Analysis Batch:	240-69287	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121812alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/18/2012 1055	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	39.8	42.6	107	90 - 127	

Duplicate - Batch: 240-69287

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	240-18762-2	Analysis Batch:	240-69287	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121812alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/18/2012 1342	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bicarbonate Alkalinity as CaCO ₃	180	194	6	20	
Carbonate Alkalinity as CaCO ₃	5.0 U	5.0	NC	20	U

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-70937

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Lab Sample ID: MB 240-70937/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/03/2013 1524
Prep Date: 01/03/2013 0636
Leach Date: N/A

Analysis Batch: 240-71049
Prep Batch: 240-70937
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP010313.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as P-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-70937

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Lab Sample ID: LCS 240-70937/11-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/03/2013 1524
Prep Date: 01/03/2013 0637
Leach Date: N/A

Analysis Batch: 240-71049
Prep Batch: 240-70937
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP010313.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as P-Dissolved	5.50	5.21	95	53 - 134	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-70937

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Dissolved

MS Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/03/2013 1524
Prep Date: 01/03/2013 0639
Leach Date: N/A

Analysis Batch: 240-71049
Prep Batch: 240-70937
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP010313.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-18762-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/03/2013 1525
Prep Date: 01/03/2013 0639
Leach Date: N/A

Analysis Batch: 240-71049
Prep Batch: 240-70937
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP010313.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Phosphorus as P-Dissolved	95	97	10 - 199	2	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18762-1

Method Blank - Batch: 240-70760

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	MB 240-70760/7	Analysis Batch:	240-70760	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	123112.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2012 0922	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.20	U	0.035	0.20

Lab Control Sample - Batch: 240-70760

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	LCS 240-70760/8	Analysis Batch:	240-70760	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	123112.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2012 0927	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	8.93	8.62	97	85 - 114	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-70760

Method: SM4500 NH3 -F
Preparation: N/A

MS Lab Sample ID:	240-18762-2	Analysis Batch:	240-70760	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	123112.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2012 0944			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-18762-2	Analysis Batch:	240-70760	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	123112.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2012 0946			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia-Dissolved	99	112	75 - 125	13	20		

North Canton

Regulatory program:

☐ Other

THE LEADER IN ENVIRONMENTAL TESTING

Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative

Login # : 18762

Client Aradi's Site Name TRW-002 By: [Signature]
Cooler Received on 12/13/12 Opened on 12-13-12 (Signature)
FedEx: 1st Gr Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____
TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 4G (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 5G (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 8 (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

☒ Multiple on Back2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA-Were custody seals on the bottle(s)? Yes No3. Shippers' packing slip attached to the cooler(s)? Yes No4. Did custody papers accompany the sample(s)? Yes No5. Were the custody papers relinquished & signed in the appropriate place? Yes No6. Did all bottles arrive in good condition (Unbroken)? Yes No7. Could all bottle labels be reconciled with the COC? Yes No8. Were correct bottle(s) used for the test(s) indicated? Yes No9. Sufficient quantity received to perform indicated analyses? Yes No10. Were sample(s) at the correct pH upon receipt? Yes No NA11. Were VOAs on the COC? Yes No12. Were air bubbles >6 mm in any VOA vials? Yes No NA13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO₃; Sulfuric Acid Lot# 051012-H₂SO₄; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

C:\Users\divengoodc\AppData\Local\Microsoft\Windows\Temporary Internet Files\OLKD16\COOLER_TestAmerica_Rev 88_110712_rls.doc

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-18762-1

Login Number: 18762

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 02/01/13 11:25 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-18762-1

Login Number: 18762
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 02/01/13 11:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 240-18845-1

Job Description: Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
2/11/2013 4:07 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
02/11/2013

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

CASE NARRATIVE

Client: TRW Automotive

Project: Oak Grove Village

Report Number: 240-18845-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 6020 Strontium analysis was performed at the TestAmerica Pittsburgh Laboratory.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/14/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TRIP BLANK (240-18845-1), MW-1(20121213) (240-18845-2) and MW-103(20121212) (240-18845-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/22/2012.

Sample MW-103(20121212) (240-18845-4)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOCs analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-1(20121213) (240-18845-2), MW-101(20121213) (240-18845-3) and MW-103(20121212) (240-18845-4) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/19/2012 and 12/28/2012 and analyzed on 01/02/2013, 12/20/2012 and 12/30/2012.

Calcium failed the recovery criteria low for the MSD of sample 240-18839-3 in batch 240-70678.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

Several analytes were detected in method blank MB 240-69386/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

DISSOLVED METALS (ICPMS)

Samples MW-1(20121213) (240-18845-2), MW-101(20121213) (240-18845-3) and MW-103(20121212) (240-18845-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 02/04/2013 and 02/05/2013 and analyzed on 02/06/2013.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Strontium was detected in method blank MB 180-62876/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Strontium was detected in method blank MB 180-62987/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

ALKALINITY

Samples MW-1(20121213) (240-18845-2) and MW-103(20121212) (240-18845-4) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 12/20/2012.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Samples MW-1(20121213) (240-18845-2), MW-101(20121213) (240-18845-3) and MW-103(20121212) (240-18845-4) were analyzed for dissolved ammonia in accordance with SM 4500 NH3 F. The samples were analyzed on 01/02/2013.

Ammonia was detected in method blank MB 240-70908/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Ammonia failed the recovery criteria high for the MS of sample MW-101(20121213)MS (240-18845-3) in batch 240-70910.

Ammonia failed the recovery criteria high for the MSD of sample MW-101(20121213)MSD (240-18845-3) in batch 240-70910.

Refer to the QC report for details.

No other difficulties were encountered during the ammonia analyses.

All other quality control parameters were within the acceptance limits.

Ammonia was detected in method blank MB 240-70907/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

DISSOLVED PHOSPHORUS

Samples MW-1(20121213) (240-18845-2), MW-101(20121213) (240-18845-3) and MW-103(20121212) (240-18845-4) were analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 01/07/2013 and 12/28/2012.

No difficulties were encountered during the phosphorus analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-1(20121213) (240-18845-2) and MW-103(20121212) (240-18845-4) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/14/2012.

The following sample was received with greater than 50% of holding time expired: MW-103(20121212). As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

Orthophosphate failed the recovery criteria high for the MS of sample MW-103(20121212)MS (240-18845-4) in batch 240-68826.

Refer to the QC report for details.

No other difficulties were encountered during the anions analyses.

All other quality control parameters were within the acceptance limits.

Nitrite as N and Orthophosphate failed the recovery criteria high for the MSD of sample 240-18790-2 in batch 240-68826.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

DISSOLVED ANIONS

Samples MW-1(20121213) (240-18845-2) and MW-103(20121212) (240-18845-4) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/14/2012.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18845-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18845-2 MW-1(20121213)						
Bicarbonate Alkalinity as CaCO ₃		160		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		330		200	ug/L	6010B
Calcium		36000		5000	ug/L	6010B
Potassium		740	J	5000	ug/L	6010B
Magnesium		22000		5000	ug/L	6010B
Sodium		2600	J	5000	ug/L	6010B
SiO ₂ , Silica		9300		1100	ug/L	6010B
Strontium		38	B	10	ug/L	6020
Chloride-Dissolved		1.5		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.75		0.10	mg/L	9056A
Fluoride-Dissolved		0.049	J	1.0	mg/L	9056A
Sulfate-Dissolved		5.8		1.0	mg/L	9056A
Ammonia-Dissolved		0.075	J B	0.20	mg/L	SM4500 NH ₃ -F
240-18845-3 MW-101(20121213)						
<i>Dissolved</i>						
Barium		33	J B	200	ug/L	6010B
Calcium		57000	B	5000	ug/L	6010B
Potassium		1500	J B	5000	ug/L	6010B
Magnesium		31000	B	5000	ug/L	6010B
Manganese		0.61	J B	15	ug/L	6010B
Sodium		4300	J	5000	ug/L	6010B
Zinc		42	J B	50	ug/L	6010B
Li		4.0	J B	50	ug/L	6010B
SiO ₂ , Silica		8300		1100	ug/L	6010B
Strontium		55	B	10	ug/L	6020
Ammonia-Dissolved		0.096	J B	0.20	mg/L	SM4500 NH ₃ -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18845-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18845-4	MW-103(20121212)					
Dichlorodifluoromethane		4.2		1.0	ug/L	8260B
1,1-Dichloroethane		1.5		1.0	ug/L	8260B
1,1-Dichloroethene		0.59	J	1.0	ug/L	8260B
Dichlorofluoromethane		130		8.0	ug/L	8260B
Tetrachloroethene		1.2		1.0	ug/L	8260B
1,1,1-Trichloroethane		0.69	J	1.0	ug/L	8260B
Trichloroethene		0.91	J	1.0	ug/L	8260B
Trichlorofluoromethane		88		4.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		200		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		71	J	200	ug/L	6010B
Calcium		45000		5000	ug/L	6010B
Potassium		900	J	5000	ug/L	6010B
Magnesium		25000		5000	ug/L	6010B
Manganese		2.5	J	15	ug/L	6010B
Sodium		4600	J	5000	ug/L	6010B
Nickel		3.5	J	40	ug/L	6010B
Zinc		6.3	J	20	ug/L	6010B
SiO2, Silica		10000		1100	ug/L	6010B
Strontium		45	B	10	ug/L	6020
Chloride-Dissolved		11		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.7	H	0.10	mg/L	9056A
Fluoride-Dissolved		0.064	J	1.0	mg/L	9056A
Bromide-Dissolved		0.13	J	0.50	mg/L	9056A
Sulfate-Dissolved		1.2		1.0	mg/L	9056A
Total Phosphorus as P-Dissolved		0.043	J	0.10	mg/L	SM 4500 P E
Ammonia-Dissolved		0.065	J B	0.20	mg/L	SM4500 NH3 -F

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-18845-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B
Metals (ICP)	TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL NC		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP)	TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL NC		SW846 3005A
Sample Filtration	TAL NC		FILTRATION
Anions, Ion Chromatography	TAL NC	SW846 9056A	
Sample Filtration, Field			FIELD_FLTRD
Alkalinity	TAL NC	SM SM 2320B	
Phosphorus	TAL NC	SM SM 4500 P E	
Phosphorus, Total	TAL NC		MCAWW 365.2/365.3/365
Sample Filtration, Field			FIELD_FLTRD
Phosphorus	TAL NC	SM SM 4500 P E	
Phosphorus, Total	TAL NC		MCAWW 365.2/365.3/365
Sample Filtration	TAL NC		Filtration
Ammonia	TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration, Field			FIELD_FLTRD
Ammonia	TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration	TAL NC		Filtration
Metals (ICP/MS)	TAL PIT	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL PIT		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL PIT	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL PIT		SW846 3005A
Sample Filtration	TAL PIT		FILTRATION

Lab References:

TAL NC = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-18845-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LE
SW846 6010B	Toth, Roger	RT
SW846 6020	Reinheimer, Bill	BR
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Colon, Olguita	OC
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Burns, Jill	JB

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-18845-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-18845-1	TRIP BLANK	Water	12/13/2012 0000	12/14/2012 0920
240-18845-2	MW-1(20121213)	Water	12/13/2012 0930	12/14/2012 0920
240-18845-3	MW-101(20121213)	Water	12/13/2012 1200	12/14/2012 0920
240-18845-4	MW-103(20121212)	Water	12/12/2012 1040	12/14/2012 0920

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18845-1

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69888

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC8764.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/22/2012 1304

Final Weight/Volume: 5 mL

Prep Date: 12/22/2012 1304

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18845-1

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8764.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1304			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1304				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	90		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	89		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-1(20121213)

Lab Sample ID: 240-18845-2

Date Sampled: 12/13/2012 0930

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8765.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1327			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1327				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-1(20121213)

Lab Sample ID: 240-18845-2

Date Sampled: 12/13/2012 0930

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8765.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1327			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1327				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	88		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-69888

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC8782.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/22/2012 1945

Final Weight/Volume: 5 mL

Prep Date: 12/22/2012 1945

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	4.2		0.31	1.0
1,1-Dichloroethane	1.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.59	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.2		0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8782.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1945			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1945				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.69	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.91	J	0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		63 - 129
Toluene-d8 (Surr)	91		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-69888	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC8766.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/22/2012 1349			Final Weight/Volume:	5 mL
Prep Date:	12/22/2012 1349				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	130		1.7	8.0
Trichlorofluoromethane	88		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-1(20121213)

Lab Sample ID: 240-18845-2

Date Sampled: 12/13/2012 0930

Client Matrix: Water

Date Received: 12/14/2012 0920

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70678	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9123012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/30/2012 1406			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	330		0.67	200
Boron	200	U	34	200
Calcium	36000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	740	J	72	5000
Magnesium	22000		34	5000
Manganese	15	U	0.41	15
Sodium	2600	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-70946	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9120212A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1402			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	9300		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2119			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	38	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-101(20121213)

Lab Sample ID: 240-18845-3

Date Sampled: 12/13/2012 1200

Client Matrix: Water

Date Received: 12/14/2012 0920

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-69732	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-69386	Lab File ID:	I9122012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/20/2012 1937			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1012				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Boron	200	U	34	200
Barium	33	J B	0.67	200
Calcium	57000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1500	J B	72	5000
Magnesium	31000	B	34	5000
Manganese	0.61	J B	0.41	15
Sodium	4300	J	590	5000
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	42	J B	5.0	50
Li	4.0	J B	1.8	50
SiO2, Silica	8300		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62987	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 1930			Final Weight/Volume:	50 mL
Prep Date:	02/05/2013 1314				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	55	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

Client Sample ID: MW-103(20121212)

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70678	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9123012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/30/2012 1410			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	71	J	0.67	200
Boron	200	U	34	200
Calcium	45000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	900	J	72	5000
Magnesium	25000		34	5000
Manganese	2.5	J	0.41	15
Sodium	4600	J	590	5000
Nickel	3.5	J	3.2	40
Zinc	6.3	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-70946	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9120212A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1406			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2123			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	45	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

General Chemistry**Client Sample ID:** MW-1(20121213)

Lab Sample ID: 240-18845-2

Date Sampled: 12/13/2012 0930

Client Matrix: Water

Date Received: 12/14/2012 0920

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.5		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68825				Analysis Date: 12/14/2012 1921			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68826				Analysis Date: 12/14/2012 1921			
Fluoride-Dissolved	0.049	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68825				Analysis Date: 12/14/2012 1921			
Nitrate as N-Dissolved	0.75		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68826				Analysis Date: 12/14/2012 1921			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68825				Analysis Date: 12/14/2012 1921			
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68826				Analysis Date: 12/14/2012 1921			
Sulfate-Dissolved	5.8		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68825				Analysis Date: 12/14/2012 1921			
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69558				Analysis Date: 12/20/2012 0240			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69558				Analysis Date: 12/20/2012 0240			
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-70517				Analysis Date: 12/28/2012 1520			
Prep Batch: 240-70389				Prep Date: 12/28/2012 0743			
Ammonia-Dissolved	0.075	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-70907				Analysis Date: 01/02/2013 1557			

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

General Chemistry**Client Sample ID:** MW-101(20121213)

Lab Sample ID: 240-18845-3

Date Sampled: 12/13/2012 1200

Client Matrix: Water

Date Received: 12/14/2012 0920

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71300		Analysis Date: 01/07/2013 1531					
Prep Batch: 240-71195		Prep Date: 01/07/2013 0734					
Ammonia-Dissolved	0.096	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-70910		Analysis Date: 01/02/2013 1654					

Analytical Data

Client: TRW Automotive

Job Number: 240-18845-1

General Chemistry**Client Sample ID: MW-103(20121212)**

Lab Sample ID: 240-18845-4

Date Sampled: 12/12/2012 1040

Client Matrix: Water

Date Received: 12/14/2012 0920

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	11		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68825				Analysis Date: 12/14/2012 1937			
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68826				Analysis Date: 12/14/2012 1937			
Fluoride-Dissolved	0.064	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68825				Analysis Date: 12/14/2012 1937			
Nitrate as N-Dissolved	1.7	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68826				Analysis Date: 12/14/2012 1937			
Bromide-Dissolved	0.13	J	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68825				Analysis Date: 12/14/2012 1937			
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68826				Analysis Date: 12/14/2012 1937			
Sulfate-Dissolved	1.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68825				Analysis Date: 12/14/2012 1937			
Bicarbonate Alkalinity as CaCO3	200		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69558				Analysis Date: 12/20/2012 0251			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69558				Analysis Date: 12/20/2012 0251			
Total Phosphorus as P-Dissolved	0.043	J	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-70517				Analysis Date: 12/28/2012 1520			
Prep Batch: 240-70389				Prep Date: 12/28/2012 0742			
Ammonia-Dissolved	0.065	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-70907				Analysis Date: 01/02/2013 1600			

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-18845-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-69888					
LCS 240-69888/4	Lab Control Sample	T	Water	8260B	
MB 240-69888/5	Method Blank	T	Water	8260B	
240-18845-1	TRIP BLANK	T	Water	8260B	
240-18845-2	MW-1(20121213)	T	Water	8260B	
240-18845-4	MW-103(20121212)	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 180-62876					
LCS 180-62876/2-A	Lab Control Sample	R	Water	3005A	
MB 180-62876/1-A	Method Blank	R	Water	3005A	
240-18845-2	MW-1(20121213)	D	Water	3005A	
240-18845-4	MW-103(20121212)	D	Water	3005A	
Prep Batch: 180-62987					
LCS 180-62987/2-A	Lab Control Sample	R	Water	3005A	
MB 180-62987/1-A	Method Blank	R	Water	3005A	
240-18845-3	MW-101(20121213)	D	Water	3005A	
Analysis Batch:180-63381					
LCS 180-62876/2-A	Lab Control Sample	R	Water	6020	180-62876
MB 180-62876/1-A	Method Blank	R	Water	6020	180-62876
LCS 180-62987/2-A	Lab Control Sample	R	Water	6020	180-62987
MB 180-62987/1-A	Method Blank	R	Water	6020	180-62987
240-18845-2	MW-1(20121213)	D	Water	6020	180-62876
240-18845-3	MW-101(20121213)	D	Water	6020	180-62987
240-18845-4	MW-103(20121212)	D	Water	6020	180-62876
Prep Batch: 240-69386					
LCS 240-69386/2-A	Lab Control Sample	R	Water	3005A	
MB 240-69386/1-A	Method Blank	R	Water	3005A	
240-18845-3	MW-101(20121213)	D	Water	3005A	
Analysis Batch:240-69732					
LCS 240-69386/2-A	Lab Control Sample	R	Water	6010B	240-69386
MB 240-69386/1-A	Method Blank	R	Water	6010B	240-69386
240-18845-3	MW-101(20121213)	D	Water	6010B	240-69386
Prep Batch: 240-70402					
LCS 240-70402/2-A	Lab Control Sample	R	Water	3005A	
MB 240-70402/1-A	Method Blank	R	Water	3005A	
240-18845-2	MW-1(20121213)	D	Water	3005A	
240-18845-4	MW-103(20121212)	D	Water	3005A	
Analysis Batch:240-70678					
LCS 240-70402/2-A	Lab Control Sample	R	Water	6010B	240-70402
MB 240-70402/1-A	Method Blank	R	Water	6010B	240-70402
240-18845-2	MW-1(20121213)	D	Water	6010B	240-70402
240-18845-4	MW-103(20121212)	D	Water	6010B	240-70402
Analysis Batch:240-70946					
240-18845-2	MW-1(20121213)	D	Water	6010B	240-70402
240-18845-4	MW-103(20121212)	D	Water	6010B	240-70402

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
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Report Basis

D = Dissolved

R = Total Recoverable

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-68825					
LCS 240-68825/6	Lab Control Sample	T	Water	9056A	
MB 240-68825/5	Method Blank	T	Water	9056A	
240-18845-2	MW-1(20121213)	D	Water	9056A	
240-18845-4	MW-103(20121212)	D	Water	9056A	
240-18845-4MS	Matrix Spike	D	Water	9056A	
Analysis Batch:240-68826					
LCS 240-68826/6	Lab Control Sample	T	Water	9056A	
MB 240-68826/5	Method Blank	T	Water	9056A	
240-18845-2	MW-1(20121213)	D	Water	9056A	
240-18845-4	MW-103(20121212)	D	Water	9056A	
240-18845-4MS	Matrix Spike	D	Water	9056A	
Analysis Batch:240-69558					
LCS 240-69558/31	Lab Control Sample	T	Water	SM 2320B	
MB 240-69558/32	Method Blank	T	Water	SM 2320B	
240-18845-2	MW-1(20121213)	T	Water	SM 2320B	
240-18845-4	MW-103(20121212)	T	Water	SM 2320B	
Prep Batch: 240-70389					
LCS 240-70389/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-70389/10-A	Method Blank	T	Water	365.2/365.3/365	
240-18845-2	MW-1(20121213)	D	Water	365.2/365.3/365	
240-18845-4	MW-103(20121212)	D	Water	365.2/365.3/365	
Analysis Batch:240-70517					
LCS 240-70389/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-70389
MB 240-70389/10-A	Method Blank	T	Water	SM 4500 P E	240-70389
240-18845-2	MW-1(20121213)	D	Water	SM 4500 P E	240-70389
240-18845-4	MW-103(20121212)	D	Water	SM 4500 P E	240-70389
Analysis Batch:240-70907					
LCS 240-70907/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-70907/7	Method Blank	T	Water	SM4500 NH3 -F	
240-18845-2	MW-1(20121213)	D	Water	SM4500 NH3 -F	
240-18845-4	MW-103(20121212)	D	Water	SM4500 NH3 -F	
Analysis Batch:240-70910					
LCS 240-70908/2-A	Lab Control Sample	D	Water	SM4500 NH3 -F	
MB 240-70908/1-A	Method Blank	D	Water	SM4500 NH3 -F	
240-18845-3	MW-101(20121213)	D	Water	SM4500 NH3 -F	
240-18845-3MS	Matrix Spike	D	Water	SM4500 NH3 -F	
240-18845-3MSD	Matrix Spike Duplicate	D	Water	SM4500 NH3 -F	

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 240-71195					
LCS 240-71192/2-B	Lab Control Sample	D	Water	365.2/365.3/365	
MB 240-71192/1-B	Method Blank	D	Water	365.2/365.3/365	
240-18845-3	MW-101(20121213)	D	Water	365.2/365.3/365	
240-18845-3MS	Matrix Spike	D	Water	365.2/365.3/365	
240-18845-3MSD	Matrix Spike Duplicate	D	Water	365.2/365.3/365	
Analysis Batch:240-71300					
LCS 240-71192/2-B	Lab Control Sample	D	Water	SM 4500 P E	240-71195
MB 240-71192/1-B	Method Blank	D	Water	SM 4500 P E	240-71195
240-18845-3	MW-101(20121213)	D	Water	SM 4500 P E	240-71195
240-18845-3MS	Matrix Spike	D	Water	SM 4500 P E	240-71195
240-18845-3MSD	Matrix Spike Duplicate	D	Water	SM 4500 P E	240-71195

Report Basis

D = Dissolved

T = Total

Client: TRW Automotive

Job Number: 240-18845-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-18845-1	TRIP BLANK	93	90	104	89
240-18845-2	MW-1(20121213)	90	88	98	92
240-18845-4	MW-103(20121212)	90	92	104	92
240-18845-4	MW-103(20121212)	92	95	102	91
MB 240-69888/5		92	89	100	92
LCS 240-69888/4		103	90	88	94

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-69888

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-69888/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/22/2012 1151
 Prep Date: 12/22/2012 1151
 Leach Date: N/A

Analysis Batch: 240-69888
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC8761.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-69888

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-69888/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/22/2012 1151
 Prep Date: 12/22/2012 1151
 Leach Date: N/A

Analysis Batch: 240-69888
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC8761.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	66 - 117
Dibromofluoromethane (Surr)	89	75 - 121
1,2-Dichloroethane-d4 (Surr)	100	63 - 129
Toluene-d8 (Surr)	92	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Lab Control Sample - Batch: 240-69888

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-69888/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/22/2012 1106
 Prep Date: 12/22/2012 1106
 Leach Date: N/A

Analysis Batch: 240-69888
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC8759.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.71	97	83 - 112	
Bromobenzene	10.0	9.57	96	76 - 115	
Bromoform	10.0	7.26	73	40 - 131	
Bromomethane	10.0	8.06	81	11 - 185	
Carbon tetrachloride	10.0	9.54	95	66 - 128	
Chlorobenzene	10.0	9.67	97	85 - 110	
Chloroethane	10.0	9.12	91	25 - 153	
Chloroform	10.0	9.24	92	79 - 117	
Chloromethane	10.0	8.02	80	44 - 126	
2-Chlorotoluene	10.0	10.2	102	76 - 116	
4-Chlorotoluene	10.0	10.6	106	77 - 115	
cis-1,2-Dichloroethene	10.0	9.53	95	80 - 113	
cis-1,3-Dichloropropene	10.0	8.82	88	61 - 115	
Dibromomethane	10.0	10.1	101	81 - 120	
1,2-Dichlorobenzene	10.0	9.42	94	81 - 110	
1,3-Dichlorobenzene	10.0	9.54	95	80 - 110	
1,4-Dichlorobenzene	10.0	9.28	93	82 - 110	
Bromodichloromethane	10.0	10.0	100	72 - 121	
Dichlorodifluoromethane	10.0	6.55	65	19 - 129	
1,1-Dichloroethane	10.0	10.1	101	82 - 115	
1,2-Dichloroethane	10.0	9.72	97	71 - 127	
1,1-Dichloroethene	10.0	8.44	84	78 - 131	
1,2-Dichloropropane	10.0	10.3	103	81 - 115	
1,3-Dichloropropane	10.0	10.1	101	79 - 116	
2,2-Dichloropropane	10.0	11.0	110	50 - 129	
1,1-Dichloropropene	10.0	9.20	92	83 - 114	
Ethylbenzene	10.0	9.73	97	83 - 112	
Hexachlorobutadiene	10.0	7.69	77	36 - 134	
Isopropylbenzene	10.0	9.92	99	75 - 114	
p-Isopropyltoluene	10.0	11.0	110	74 - 120	
Methylene Chloride	10.0	9.46	95	66 - 131	
m-Xylene & p-Xylene	20.0	20.3	101	83 - 113	
Naphthalene	10.0	8.34	83	32 - 141	
n-Butylbenzene	10.0	10.9	109	66 - 125	
N-Propylbenzene	10.0	10.5	105	74 - 121	
o-Xylene	10.0	9.88	99	83 - 113	
sec-Butylbenzene	10.0	10.4	104	70 - 117	
Styrene	10.0	10.3	103	79 - 114	
tert-Butylbenzene	10.0	10.4	104	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	9.59	96	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	9.35	94	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Lab Control Sample - Batch: 240-69888

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-69888/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/22/2012 1106
 Prep Date: 12/22/2012 1106
 Leach Date: N/A

Analysis Batch: 240-69888
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC8759.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	8.56	86	79 - 114	
Toluene	10.0	9.62	96	84 - 111	
trans-1,2-Dichloroethene	10.0	9.30	93	83 - 117	
trans-1,3-Dichloropropene	10.0	8.35	84	58 - 117	
1,2,3-Trichlorobenzene	10.0	7.37	74	54 - 126	
1,2,4-Trichlorobenzene	10.0	8.12	81	48 - 135	
1,1,1-Trichloroethane	10.0	10.1	101	74 - 118	
1,1,2-Trichloroethane	10.0	9.82	98	80 - 112	
Trichloroethene	10.0	9.11	91	76 - 117	
Trichlorofluoromethane	10.0	7.02	70	49 - 157	
1,2,3-Trichloropropane	10.0	9.69	97	73 - 129	
1,2,4-Trimethylbenzene	10.0	10.7	107	76 - 120	
1,3,5-Trimethylbenzene	10.0	10.5	105	72 - 118	
Vinyl chloride	10.0	8.81	88	53 - 127	
Bromochloromethane	10.0	8.70	87	77 - 120	
1,2-Dibromoethane	10.0	9.06	91	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	103		66 - 117		
Dibromofluoromethane (Surr)	90		75 - 121		
1,2-Dichloroethane-d4 (Surr)	88		63 - 129		
Toluene-d8 (Surr)	94		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-69386

Lab Sample ID: MB 240-69386/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/20/2012 1758
Prep Date: 12/19/2012 1012
Leach Date: N/A

Analysis Batch: 240-69732
Prep Batch: 240-69386
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9122012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	1.64	J	0.67	200
Boron	200	U	34	200
Calcium	362	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	191	J	72	5000
Magnesium	84.9	J	34	5000
Manganese	1.18	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	13.2	J	5.0	50
Li	9.44	J	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-69386

Lab Sample ID: LCS 240-69386/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/20/2012 1801
Prep Date: 12/19/2012 1012
Leach Date: N/A

Analysis Batch: 240-69732
Prep Batch: 240-69386
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9122012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	1980	99	80 - 120	
Boron	1000	1080	108	80 - 120	
Calcium	50000	50000	100	80 - 120	
Chromium	200	189	94	80 - 120	
Iron	1000	951	95	80 - 120	
Potassium	50000	47600	95	80 - 120	
Magnesium	50000	47800	96	80 - 120	
Manganese	500	469	94	80 - 120	
Sodium	50000	49500	99	80 - 120	
Nickel	500	502	100	80 - 120	
Lead	500	477	95	80 - 120	
Zinc	500	515	103	80 - 120	
Li	1000	937	94	80 - 120	
SiO2, Silica	2140	2160	101	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-70402

Lab Sample ID: MB 240-70402/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/30/2012 1246
Prep Date: 12/28/2012 0827
Leach Date: N/A

Analysis Batch: 240-70678
Prep Batch: 240-70402
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9123012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	200	U	0.67	200
Boron	200	U	34	200
Calcium	5000	U	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	5000	U	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	20	U	5.0	20
Lithium	50	U	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-70402

Lab Sample ID: LCS 240-70402/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/30/2012 1250
Prep Date: 12/28/2012 0827
Leach Date: N/A

Analysis Batch: 240-70678
Prep Batch: 240-70402
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9123012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2100	105	80 - 120	
Boron	1000	1120	112	80 - 120	
Calcium	50000	52300	105	80 - 120	
Chromium	200	211	106	80 - 120	
Iron	1000	1070	107	80 - 120	
Potassium	50000	49700	99	80 - 120	
Magnesium	50000	53300	107	80 - 120	
Manganese	500	527	105	80 - 120	
Sodium	50000	53000	106	80 - 120	
Nickel	500	528	106	80 - 120	
Lead	500	509	102	80 - 120	
Zinc	500	525	105	80 - 120	
Lithium	1000	1020	102	80 - 120	
SiO2, Silica	2140	2510	117	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 180-62876

Lab Sample ID: MB 180-62876/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/06/2013 2019
Prep Date: 02/04/2013 1342
Leach Date: N/A

Analysis Batch: 180-63381
Prep Batch: 180-62876
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
Lab File ID: M30206A1.xml
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.115	J	0.018	10

Lab Control Sample - Batch: 180-62876

Lab Sample ID: LCS 180-62876/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/06/2013 2024
Prep Date: 02/04/2013 1342
Leach Date: N/A

Analysis Batch: 180-63381
Prep Batch: 180-62876
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
Lab File ID: M30206A1.xml
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	927	93	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 180-62987

Lab Sample ID: MB 180-62987/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/06/2013 1921
 Prep Date: 02/05/2013 1314
 Leach Date: N/A

Analysis Batch: 180-63381
 Prep Batch: 180-62987
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
 Lab File ID: M30206A1.xml
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.0280	J	0.018	10

Lab Control Sample - Batch: 180-62987

Lab Sample ID: LCS 180-62987/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/06/2013 1926
 Prep Date: 02/05/2013 1314
 Leach Date: N/A

Analysis Batch: 180-63381
 Prep Batch: 180-62987
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
 Lab File ID: M30206A1.xml
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	886	89	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-68825

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-68825/5	Analysis Batch:	240-68825	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0015871-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2012 1848	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-68825

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-68825/6	Analysis Batch:	240-68825	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0015871-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2012 1904	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	52.2	104	90 - 110	
Fluoride-Dissolved	2.50	2.50	100	90 - 110	
Bromide-Dissolved	10.0	10.2	102	90 - 110	
Sulfate-Dissolved	50.0	49.3	99	90 - 110	

Matrix Spike - Batch: 240-68825

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-18845-4	Analysis Batch:	240-68825	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	9240-0015871-009.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2012 1953	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	11	50.0	70.8	119	80 - 120	
Fluoride-Dissolved	0.064 J	2.50	2.80	109	80 - 120	
Bromide-Dissolved	0.13 J	10.0	11.0	109	80 - 120	
Sulfate-Dissolved	1.2	50.0	54.1	106	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-68826

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-68826/5	Analysis Batch:	240-68826	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0015871-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2012 1848	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-68826

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-68826/6	Analysis Batch:	240-68826	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0015871-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2012 1904	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.64	106	90 - 110	
Nitrate as N-Dissolved	2.50	2.60	104	90 - 110	
Orthophosphate-Dissolved	2.50	2.40	96	90 - 110	

Matrix Spike - Batch: 240-68826

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-18845-4	Analysis Batch:	240-68826	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	9240-0015871-009.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2012 1953	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	0.10	U	2.50	2.81	112	80 - 120	
Nitrate as N-Dissolved	1.7		2.50	4.61	116	80 - 120	
Orthophosphate-Dissolved	0.50	U	2.50	3.69	148	80 - 120	F

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-69558

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 240-69558/32
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/19/2012 2145
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-69558
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: 121912alk.TXT
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-69558

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 240-69558/31
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/19/2012 2138
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-69558
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: 121912alk.TXT
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	58.7	60.5	103	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-70389

Method: SM 4500 P E
Preparation: 365.2/365.3/365

Lab Sample ID: MB 240-70389/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/28/2012 1516
Prep Date: 12/28/2012 0714
Leach Date: N/A

Analysis Batch: 240-70517
Prep Batch: 240-70389
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP122812.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as P-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-70389

Method: SM 4500 P E
Preparation: 365.2/365.3/365

Lab Sample ID: LCS 240-70389/11-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/28/2012 1516
Prep Date: 12/28/2012 0716
Leach Date: N/A

Analysis Batch: 240-70517
Prep Batch: 240-70389
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP122812.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as P-Dissolved	5.50	5.39	98	53 - 134	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-71195

Lab Sample ID: MB 240-71192/1-B
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/07/2013 1531
Prep Date: 01/07/2013 0727
Leach Date: N/A

Analysis Batch: 240-71300
Prep Batch: 240-71195
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

Instrument ID: BARNEY
Lab File ID: P010713A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as P-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-71195

Lab Sample ID: LCS 240-71192/2-B
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/07/2013 1531
Prep Date: 01/07/2013 0730
Leach Date: N/A

Analysis Batch: 240-71300
Prep Batch: 240-71195
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

Instrument ID: BARNEY
Lab File ID: P010713A.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as P-Dissolved	5.50	5.59	102	53 - 134	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-71195

MS Lab Sample ID: 240-18845-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/07/2013 1531
Prep Date: 01/07/2013 0737
Leach Date: N/A

Analysis Batch: 240-71300
Prep Batch: 240-71195
Leach Batch: N/A

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

Instrument ID: BARNEY
Lab File ID: P010713A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-18845-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/07/2013 1531
Prep Date: 01/07/2013 0741
Leach Date: N/A

Analysis Batch: 240-71300
Prep Batch: 240-71195
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: P010713A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Phosphorus as P-Dissolved	98	100	10 - 199	2	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-70907

Lab Sample ID: MB 240-70907/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 01/02/2013 1234
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 240-70907
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Method: SM4500 NH3 -F Preparation: N/A

Instrument ID: DAVE
 Lab File ID: 010213.txt
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.0491	J	0.035	0.20

Lab Control Sample - Batch: 240-70907

Lab Sample ID: LCS 240-70907/8
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 01/02/2013 1240
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 240-70907
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Method: SM4500 NH3 -F Preparation: N/A

Instrument ID: DAVE
 Lab File ID: 010213.txt
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	8.93	8.56	96	85 - 114	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18845-1

Method Blank - Batch: 240-70910

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	MB 240-70908/1-A	Analysis Batch:	240-70910	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010213B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1637	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.0448	J	0.035	0.20

Lab Control Sample - Batch: 240-70910

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	LCS 240-70908/2-A	Analysis Batch:	240-70910	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010213B.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1642	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	8.93	9.85	110	85 - 114	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-70910

Method: SM4500 NH3 -F
Preparation: N/A

MS Lab Sample ID:	240-18845-3	Analysis Batch:	240-70910	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010213B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1659			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-18845-3	Analysis Batch:	240-70910	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010213B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1701			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia-Dissolved	142	135	75 - 125	5	20	F	F

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

Regulatory program:

☐ DW☐ NPDES☐ RCRA☐ Other

TestAmerica Laboratories, Inc.

Client Contact		Client Project Manager:		Site Contact:		Lab Contact:		COC No:	
Company Name: ARCADIS		John Shonfelt		Ben Doran		Deniese Pohl		049227	
Address: 8725 Rosehill Rd Ste 350		Telephone: 913 492-0900		Telephone:		Telephone:		1 of 1 COCs	
City/State/Zip: Lenexa, KS 66215		Email: john.shonfelt@arcadis-us.com		Analysis Turnaround Time (in business days)		Analytes		For lab use only:	
Phone: 913 492-0900				TAT if different from below		Ver 8260B		Walk-in client <input type="checkbox"/>	
Project Name: TRW-002		Method of Shipment/Carrier: FedEx Pickup		<input type="checkbox"/> 3 weeks		Metals 6010B/6020		Lab pickup <input type="checkbox"/>	
Project Number: K6001590.0003.00008		Shipping/Tracking No: 8672 3646 6827		<input type="checkbox"/> 2 weeks		Anions 9060A		Lab sampling <input type="checkbox"/>	
PO#				<input type="checkbox"/> 1 week		Alkalinity 2320B		Job/SDG No:	
				<input type="checkbox"/> 2 days		Ammonia, Total Phosphorus			
				<input type="checkbox"/> 1 day					
Sample Identification		Sample Date	Sample Time	Matrix	Containers & Preservatives	Filtered Sample (X/N)	Composites (X/Grab)	Sample Specific Notes / Special Instructions:	
				Air	Aqueous	Sediment	Solid	Other:	
				H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres
Trip Blank	12-13-12	—	X			3			X
MW-1 (20121213)	12-13-12	0930	X			1 2 3		2	X X X X X
MW-101 (20121213)	12-13-12	1200	X					3	X X X X X
MW-103 (121212)	12-12-12	1640	X			1 2 3		2	X X X X X
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments: MW-101 is not preserved or field Filtered									
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
B2		ARCADIS		12/13/12 1400		Deniese Pohl		TAC	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

TestAmerica Canton Sample Receipt Form/Narrative

Login # :

18845

Client ARCADIS

Site Name _____

By: Remell

(Signature)

Cooler Received on 12-14-12Opened on 12-14-12FedEx: 1st Grd ☒ Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____TestAmerica Cooler # _____ Foam Box ☒ Client Cooler Box Other _____Packing material used: Bubble Wrap Foam ☒ Plastic Bag None Other _____COOLANT: ☒ Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 4G (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 5G (CF 0 °C) Observed Sample Temp. 0.2 °C Corrected Sample Temp. 0.2 °C

IR GUN# 8 (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

☐ Multiple
on Back2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1☒ Yes No-Were custody seals on the outside of the cooler(s) signed & dated? ☒ Yes No NA-Were custody seals on the bottle(s)? ☒ Yes ☒ No

3. Shippers' packing slip attached to the cooler(s)?

☒ Yes No

4. Did custody papers accompany the sample(s)?

☒ Yes No

5. Were the custody papers relinquished & signed in the appropriate place?

☒ Yes No

6. Did all bottles arrive in good condition (Unbroken)?

☒ Yes No

7. Could all bottle labels be reconciled with the COC?

☒ Yes No

8. Were correct bottle(s) used for the test(s) indicated?

☒ Yes No

9. Sufficient quantity received to perform indicated analyses?

☒ Yes No

10. Were sample(s) at the correct pH upon receipt?

☒ Yes No NA

11. Were VOAs on the COC?

☒ Yes No

12. Were air bubbles >6 mm in any VOA vials?

☒ Yes ☒ No NA

13. Was a trip blank present in the cooler(s)?

☒ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO₃; Sulfuric Acid Lot# 051012-H₂SO₄; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID

pH

Date _____

Initials

mmw = 103

52 52 52
52 52 52

12-14-12
12-14-13

TL 5

Cooler #

Observed Sample Temp. °C

Corrected Sample Temp. °C

IR #Coolant

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-18845-1

Login Number: 18845
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 02/01/13 11:23 AM

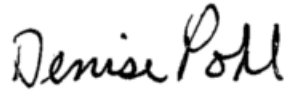
Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4"$).	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 240-18953-1

Job Description: TRW-OU2 - Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
3/7/2013 1:11 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
03/07/2013
Revision: 1

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

CASE NARRATIVE

Client: TRW Automotive

Project: TRW-OU2 - Oak Grove Village

Report Number: 240-18953-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 6020 Strontium analysis was performed at the TestAmerica Pittsburgh Laboratory.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

Revision 03/07/2013: Revision to correct sample id for MW-107S(20121214) (240-18953-5) to MW-108S(20121214) (240-18953-5).

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client

RECEIPT

The samples were received on 12/15/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.8 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-1A(20121213) (240-18953-1), MW-102A(20121213) (240-18953-2), MW-102B(20121213) (240-18953-3), TRIP BLANK (240-18953-4), MW-108S(20121214) (240-18953-5), VOSS WELL(20121213) (240-18953-6), DUP-01(20121213) (240-18953-7) and EB-01(20121213) (240-18953-8) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/24/2012 and 12/26/2012.

Methylene Chloride was detected in method blank MB 240-70043/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Methylene Chloride was detected in method blank MB 240-70091/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

1,2,3-Trichlorobenzene failed the recovery criteria low for LCS 240-70043/4. 1,2,3-Trichlorobenzene failed the recovery criteria low for LCS 240-70091/4. Refer to the QC report for details.

The laboratory control sample (LCS) for batch 70043 exceeded control limits for the following analyte(s): 1,2,3-Trichlorobenzene. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The laboratory control sample (LCS) for batch 70091 exceeded control limits for the following analyte(s): 1,2,3-Trichlorobenzene. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

1,2,3-Trichlorobenzene and 1,2-Dichlorobenzene failed the recovery criteria low for the MS of sample 240-18973-34 in batch 240-70043.

1,2,3-Trichlorobenzene failed the recovery criteria low for the MS of sample 240-18973-20 in batch 240-70091.

Refer to the QC report for details.

Samples MW-108S(20121214) (240-18953-5)[2X], VOSS WELL(20121213) (240-18953-6)[3.33X] and DUP-01(20121213) (240-18953-7) [3.33X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-1A(20121213) (240-18953-1), MW-102A(20121213) (240-18953-2), MW-102B(20121213) (240-18953-3), MW-108S(20121214) (240-18953-5), VOSS WELL(20121213) (240-18953-6), DUP-01(20121213) (240-18953-7) and EB-01(20121213) (240-18953-8) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/28/2012 and 12/31/2012 and analyzed on 01/02/2013, 01/03/2013 and 12/30/2012.

The continuing calibration verification (CCV) for SiO₂ associated with batch 71033 recovered above the upper control limit. The sample associated with this CCV was non-detect for the affected analyte; therefore, the data has been reported. EB-01(20121213)

Calcium failed the recovery criteria low for the MSD of sample 240-18839-3 in batch 240-70678.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MW-1A(20121213) (240-18953-1), MW-102A(20121213) (240-18953-2), MW-102B(20121213) (240-18953-3), MW-108S(20121214) (240-18953-5), VOSS WELL(20121213) (240-18953-6), DUP-01(20121213) (240-18953-7) and EB-01(20121213) (240-18953-8) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 02/04/2013 and analyzed on 02/06/2013.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Strontium was detected in method blank MB 180-62876/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

ALKALINITY

Samples MW-1A(20121213) (240-18953-1), MW-102A(20121213) (240-18953-2), MW-102B(20121213) (240-18953-3), MW-108S(20121214) (240-18953-5), VOSS WELL(20121213) (240-18953-6), DUP-01(20121213) (240-18953-7) and EB-01(20121213) (240-18953-8) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 12/21/2012 and 12/23/2012.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Samples MW-1A(20121213) (240-18953-1), MW-102A(20121213) (240-18953-2), MW-102B(20121213) (240-18953-3), MW-108S(20121214) (240-18953-5), VOSS WELL(20121213) (240-18953-6), DUP-01(20121213) (240-18953-7) and EB-01(20121213) (240-18953-8) were analyzed for dissolved ammonia in accordance with SM 4500 NH₃ F. The samples were analyzed on 01/04/2013.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

Ammonia was detected in method blank MB 240-71147/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

DISSOLVED PHOSPHORUS

Samples MW-1A(20121213) (240-18953-1), MW-102A(20121213) (240-18953-2), MW-102B(20121213) (240-18953-3), MW-108S(20121214) (240-18953-5), VOSS WELL(20121213) (240-18953-6), DUP-01(20121213) (240-18953-7) and EB-01(20121213) (240-18953-8) were analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on

01/07/2013.

No difficulties were encountered during the phosphorus analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-1A(20121213) (240-18953-1), MW-102A(20121213) (240-18953-2), MW-102B(20121213) (240-18953-3), MW-108S(20121214) (240-18953-5), VOSS WELL(20121213) (240-18953-6), DUP-01(20121213) (240-18953-7) and EB-01(20121213) (240-18953-8) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/15/2012.

Orthophosphate failed the recovery criteria high for the MS of sample MW-108S(20121214)MS (240-18953-5) in batch 240-68853.

The following sample is a client dup of another sample in the login. Since no other samples in the login were analyzed outside of hold, the dup cannot be out of hold. : DUP-01(20121213). The results are reported

No other analytical or quality issues were noted.

Refer to the QC report for details.

No other difficulties were encountered during the anions analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-1A(20121213) (240-18953-1), MW-102A(20121213) (240-18953-2), MW-102B(20121213) (240-18953-3), MW-108S(20121214) (240-18953-5), VOSS WELL(20121213) (240-18953-6), DUP-01(20121213) (240-18953-7) and EB-01(20121213) (240-18953-8) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/15/2012.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18953-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18953-1	MW-1A(20121213)					
cis-1,2-Dichloroethene		0.39	J	1.0	ug/L	8260B
Dichlorodifluoromethane		0.51	J	1.0	ug/L	8260B
1,1-Dichloroethane		0.43	J	1.0	ug/L	8260B
Dichlorofluoromethane		15		2.0	ug/L	8260B
Trichloroethene		0.74	J	1.0	ug/L	8260B
Trichlorofluoromethane		3.4		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		290		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		110	J	200	ug/L	6010B
Calcium		64000		5000	ug/L	6010B
Potassium		2700	J	5000	ug/L	6010B
Magnesium		35000		5000	ug/L	6010B
Manganese		0.71	J	15	ug/L	6010B
Sodium		5200		5000	ug/L	6010B
Zinc		7.0	J	20	ug/L	6010B
SiO2, Silica		11000		1100	ug/L	6010B
Strontium		94	B	10	ug/L	6020
Chloride-Dissolved		6.2		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.8		0.10	mg/L	9056A
Fluoride-Dissolved		0.036	J	1.0	mg/L	9056A
Sulfate-Dissolved		6.0		1.0	mg/L	9056A
Ammonia-Dissolved		0.063	J B	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18953-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18953-2	MW-102A(20121213)					
Dichlorodifluoromethane		1.6		1.0	ug/L	8260B
1,1-Dichloroethane		1.4		1.0	ug/L	8260B
Dichlorofluoromethane		19		2.0	ug/L	8260B
Trichloroethene		0.79	J	1.0	ug/L	8260B
Trichlorofluoromethane		9.1		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		160		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		47	J	200	ug/L	6010B
Calcium		39000		5000	ug/L	6010B
Potassium		1100	J	5000	ug/L	6010B
Magnesium		22000		5000	ug/L	6010B
Manganese		1.4	J	15	ug/L	6010B
Sodium		3100	J	5000	ug/L	6010B
SiO2, Silica		9800		1100	ug/L	6010B
Strontium		40	B	10	ug/L	6020
Chloride-Dissolved		5.3		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.3		0.10	mg/L	9056A
Fluoride-Dissolved		0.051	J	1.0	mg/L	9056A
Sulfate-Dissolved		12		1.0	mg/L	9056A
Total Phosphorus as P-Dissolved		0.080	J	0.10	mg/L	SM 4500 P E
Ammonia-Dissolved		0.054	J B	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18953-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18953-3	MW-102B(20121213)					
Dichlorodifluoromethane		1.2		1.0	ug/L	8260B
1,1-Dichloroethane		0.81	J	1.0	ug/L	8260B
Dichlorofluoromethane		19		2.0	ug/L	8260B
Tetrachloroethene		0.31	J	1.0	ug/L	8260B
Trichloroethene		0.42	J	1.0	ug/L	8260B
Trichlorofluoromethane		5.9		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		270		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		78	J	200	ug/L	6010B
Calcium		58000		5000	ug/L	6010B
Potassium		2600	J	5000	ug/L	6010B
Magnesium		33000		5000	ug/L	6010B
Manganese		0.94	J	15	ug/L	6010B
Sodium		8600		5000	ug/L	6010B
Zinc		6.1	J	20	ug/L	6010B
SiO2, Silica		10000		1100	ug/L	6010B
Strontium		66	B	10	ug/L	6020
Chloride-Dissolved		8.7		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.76		0.10	mg/L	9056A
Fluoride-Dissolved		0.030	J	1.0	mg/L	9056A
Sulfate-Dissolved		7.3		1.0	mg/L	9056A
Ammonia-Dissolved		0.047	J B	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18953-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18953-5	MW-108S(20121214)					
cis-1,2-Dichloroethene		0.40	J	1.0	ug/L	8260B
Dichlorodifluoromethane		2.4		1.0	ug/L	8260B
1,1-Dichloroethane		1.5		1.0	ug/L	8260B
Dichlorofluoromethane		57		4.0	ug/L	8260B
Tetrachloroethene		0.71	J	1.0	ug/L	8260B
Trichloroethene		1.1		1.0	ug/L	8260B
Trichlorofluoromethane		10		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		340		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		180	J	200	ug/L	6010B
Boron		34	J	200	ug/L	6010B
Calcium		76000		5000	ug/L	6010B
Potassium		2300	J	5000	ug/L	6010B
Magnesium		41000		5000	ug/L	6010B
Manganese		9.6	J	15	ug/L	6010B
Sodium		6900		5000	ug/L	6010B
Nickel		8.5	J	40	ug/L	6010B
Zinc		120		20	ug/L	6010B
SiO2, Silica		13000		1100	ug/L	6010B
Strontium		110	B	10	ug/L	6020
Chloride-Dissolved		7.0		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.28		0.10	mg/L	9056A
Fluoride-Dissolved		0.024	J	1.0	mg/L	9056A
Sulfate-Dissolved		12		1.0	mg/L	9056A
Ammonia-Dissolved		0.046	J B	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18953-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18953-6	VOSS WELL(20121213)					
Dichlorodifluoromethane		4.1		1.0	ug/L	8260B
1,1-Dichloroethane		2.5		1.0	ug/L	8260B
1,1-Dichloroethene		0.32	J	1.0	ug/L	8260B
Dichlorofluoromethane		77		6.7	ug/L	8260B
Tetrachloroethene		0.94	J	1.0	ug/L	8260B
1,1,1-Trichloroethane		0.27	J	1.0	ug/L	8260B
Trichloroethene		1.8		1.0	ug/L	8260B
Trichlorofluoromethane		39		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		210		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		180	J	200	ug/L	6010B
Calcium		46000		5000	ug/L	6010B
Potassium		1100	J	5000	ug/L	6010B
Magnesium		26000		5000	ug/L	6010B
Sodium		3800	J	5000	ug/L	6010B
Zinc		8.5	J	20	ug/L	6010B
SiO2, Silica		10000		1100	ug/L	6010B
Strontium		44	B	10	ug/L	6020
Chloride-Dissolved		7.6		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.0		0.10	mg/L	9056A
Fluoride-Dissolved		0.051	J	1.0	mg/L	9056A
Sulfate-Dissolved		11		1.0	mg/L	9056A
Ammonia-Dissolved		0.037	J B	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-18953-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-18953-7FD	DUP-01(20121213)					
Dichlorodifluoromethane		5.2		1.0	ug/L	8260B
1,1-Dichloroethane		2.4		1.0	ug/L	8260B
1,1-Dichloroethene		0.28	J	1.0	ug/L	8260B
Dichlorofluoromethane		78		6.7	ug/L	8260B
Methylene Chloride		0.51	J B	1.0	ug/L	8260B
Tetrachloroethene		0.88	J	1.0	ug/L	8260B
1,1,1-Trichloroethane		0.28	J	1.0	ug/L	8260B
Trichloroethene		1.7		1.0	ug/L	8260B
Trichlorofluoromethane		46		3.3	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		230		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		190	J	200	ug/L	6010B
Calcium		45000		5000	ug/L	6010B
Potassium		1100	J	5000	ug/L	6010B
Magnesium		26000		5000	ug/L	6010B
Manganese		0.43	J	15	ug/L	6010B
Sodium		3800	J	5000	ug/L	6010B
Zinc		8.0	J	20	ug/L	6010B
SiO2, Silica		10000		1100	ug/L	6010B
Strontium		45	B	10	ug/L	6020
Chloride-Dissolved		7.8		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.0	H	0.10	mg/L	9056A
Fluoride-Dissolved		0.048	J	1.0	mg/L	9056A
Sulfate-Dissolved		11		1.0	mg/L	9056A
Ammonia-Dissolved		0.036	J B	0.20	mg/L	SM4500 NH3 -F
240-18953-8EB	EB-01(20121213)					
Chloroform		0.42	J	1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		5.5		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		7.0	J	200	ug/L	6010B
Calcium		1100	J	5000	ug/L	6010B
Magnesium		530	J	5000	ug/L	6010B
Manganese		0.49	J	15	ug/L	6010B
SiO2, Silica		330	J ^	1100	ug/L	6010B
Strontium		1.2	J B	10	ug/L	6020
Chloride-Dissolved		0.11	J	1.0	mg/L	9056A
Fluoride-Dissolved		0.031	J	1.0	mg/L	9056A
Sulfate-Dissolved		0.23	J	1.0	mg/L	9056A

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-18953-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B
Metals (ICP)	TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL NC		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography	TAL NC	SW846 9056A	
Sample Filtration, Field			FIELD_FLTRD
Alkalinity	TAL NC	SM SM 2320B	
Phosphorus	TAL NC	SM SM 4500 P E	
Phosphorus, Total	TAL NC		MCAWW 365.2/365.3/365
Sample Filtration, Field			FIELD_FLTRD
Ammonia	TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL PIT	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL PIT		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL NC = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-18953-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LE
SW846 6010B	Toth, Roger	RT
SW846 6020	Reinheimer, Bill	BR
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Colon, Olguita	OC
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Kuhle, Julie	JK

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-18953-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-18953-1	MW-1A(20121213)	Water	12/13/2012 1700	12/15/2012 0900
240-18953-2	MW-102A(20121213)	Water	12/14/2012 1150	12/15/2012 0900
240-18953-3	MW-102B(20121213)	Water	12/14/2012 1020	12/15/2012 0900
240-18953-4TB	TRIP BLANK	Water	12/14/2012 0000	12/15/2012 0900
240-18953-5	MW-108S(20121214)	Water	12/14/2012 0830	12/15/2012 0900
240-18953-6	VOSS WELL(20121213)	Water	12/13/2012 1830	12/15/2012 0900
240-18953-7FD	DUP-01(20121213)	Water	12/13/2012 0000	12/15/2012 0900
240-18953-8EB	EB-01(20121213)	Water	12/14/2012 1045	12/15/2012 0900

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-1A(20121213)

Lab Sample ID: 240-18953-1

Date Sampled: 12/13/2012 1700

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9256.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2042			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2042				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.39	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.51	J	0.31	1.0
1,1-Dichloroethane	0.43	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	15		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-1A(20121213)

Lab Sample ID: 240-18953-1

Date Sampled: 12/13/2012 1700

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9256.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2042			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2042				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.74	J	0.17	1.0
Trichlorofluoromethane	3.4		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		66 - 117
Dibromofluoromethane (Surr)	86		75 - 121
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102A(20121213)

Lab Sample ID: 240-18953-2

Date Sampled: 12/14/2012 1150

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9257.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2105			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.6		0.31	1.0
1,1-Dichloroethane	1.4		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	19		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102A(20121213)

Lab Sample ID: 240-18953-2

Date Sampled: 12/14/2012 1150

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9257.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2105			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.79	J	0.17	1.0
Trichlorofluoromethane	9.1		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		66 - 117
Dibromofluoromethane (Surr)	83		75 - 121
1,2-Dichloroethane-d4 (Surr)	79		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102B(20121213)

Lab Sample ID: 240-18953-3

Date Sampled: 12/14/2012 1020

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9258.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2128			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2128				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.2		0.31	1.0
1,1-Dichloroethane	0.81	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	19		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.31	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102B(20121213)

Lab Sample ID: 240-18953-3

Date Sampled: 12/14/2012 1020

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9258.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2128			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2128				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.42	J	0.17	1.0
Trichlorofluoromethane	5.9		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	110		66 - 117
Dibromofluoromethane (Surr)	86		75 - 121
1,2-Dichloroethane-d4 (Surr)	81		63 - 129
Toluene-d8 (Surr)	98		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18953-4TB

Date Sampled: 12/14/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-70043

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ9259.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/24/2012 2150

Final Weight/Volume: 5 mL

Prep Date: 12/24/2012 2150

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18953-4TB

Date Sampled: 12/14/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9259.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2150			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2150				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	83		75 - 121
1,2-Dichloroethane-d4 (Surr)	80		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-70043

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ9260.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/24/2012 2212

Final Weight/Volume: 5 mL

Prep Date: 12/24/2012 2212

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.40	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.4		0.31	1.0
1,1-Dichloroethane	1.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.71	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9260.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2212			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2212				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.1		0.17	1.0
Trichlorofluoromethane	10		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		66 - 117
Dibromofluoromethane (Surr)	89		75 - 121
1,2-Dichloroethane-d4 (Surr)	82		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70091	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9283.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/26/2012 1202			Final Weight/Volume:	5 mL
Prep Date:	12/26/2012 1202				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	57		0.84	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		66 - 117
Dibromofluoromethane (Surr)	84		75 - 121
1,2-Dichloroethane-d4 (Surr)	79		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-70043

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ9261.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/24/2012 2235

Final Weight/Volume: 5 mL

Prep Date: 12/24/2012 2235

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	4.1		0.31	1.0
1,1-Dichloroethane	2.5		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.32	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.94	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9261.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2235			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.27	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.8		0.17	1.0
Trichlorofluoromethane	39		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		66 - 117
Dibromofluoromethane (Surr)	83		75 - 121
1,2-Dichloroethane-d4 (Surr)	79		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70091	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9284.D
Dilution:	3.33			Initial Weight/Volume:	5 mL
Analysis Date:	12/26/2012 1224			Final Weight/Volume:	5 mL
Prep Date:	12/26/2012 1224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	77		1.4	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	108		66 - 117
Dibromofluoromethane (Surr)	83		75 - 121
1,2-Dichloroethane-d4 (Surr)	80		63 - 129
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Client Matrix: Water

Date Sampled: 12/13/2012 0000

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-70043

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ9262.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/24/2012 2257

Final Weight/Volume: 5 mL

Prep Date: 12/24/2012 2257

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	5.2		0.31	1.0
1,1-Dichloroethane	2.4		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.28	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.51	J B	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.88	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9262.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2257			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2257				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.28	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.7		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		66 - 117
Dibromofluoromethane (Surr)	86		75 - 121
1,2-Dichloroethane-d4 (Surr)	83		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70091	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9285.D
Dilution:	3.33			Initial Weight/Volume:	5 mL
Analysis Date:	12/26/2012 1247			Final Weight/Volume:	5 mL
Prep Date:	12/26/2012 1247				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	78		1.4	6.7
Trichlorofluoromethane	46		0.70	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		66 - 117
Dibromofluoromethane (Surr)	85		75 - 121
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: EB-01(20121213)

Lab Sample ID: 240-18953-8EB

Client Matrix: Water

Date Sampled: 12/14/2012 1045

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-70043

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ9263.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/24/2012 2319

Final Weight/Volume: 5 mL

Prep Date: 12/24/2012 2319

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.42	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: EB-01(20121213)

Lab Sample ID: 240-18953-8EB

Date Sampled: 12/14/2012 1045

Client Matrix: Water

Date Received: 12/15/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-70043	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ9263.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/24/2012 2319			Final Weight/Volume:	5 mL
Prep Date:	12/24/2012 2319				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	86		75 - 121
1,2-Dichloroethane-d4 (Surr)	81		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-1A(20121213)

Lab Sample ID: 240-18953-1

Date Sampled: 12/13/2012 1700

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-70678	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9123012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/30/2012 1446			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	110	J	0.67	200
Boron	200	U	34	200
Calcium	64000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2700	J	72	5000
Magnesium	35000		34	5000
Manganese	0.71	J	0.41	15
Sodium	5200		590	5000
Nickel	40	U	3.2	40
Zinc	7.0	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50

Analysis Method:	6010B	Analysis Batch:	240-70946	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70402	Lab File ID:	I9120212A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2013 1414			Final Weight/Volume:	50 mL
Prep Date:	12/28/2012 0827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2128			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	94	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102A(20121213)

Lab Sample ID: 240-18953-2

Date Sampled: 12/14/2012 1150

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1748			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	47	J	0.67	200
Boron	200	U	34	200
Calcium	39000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J	72	5000
Magnesium	22000		34	5000
Manganese	1.4	J	0.41	15
Sodium	3100	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9800		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2133			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	40	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-102B(20121213)

Lab Sample ID: 240-18953-3

Date Sampled: 12/14/2012 1020

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1752			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	78	J	0.67	200
Boron	200	U	34	200
Calcium	58000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2600	J	72	5000
Magnesium	33000		34	5000
Manganese	0.94	J	0.41	15
Sodium	8600		590	5000
Nickel	40	U	3.2	40
Zinc	6.1	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2138			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	66	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: MW-108S(20121214)

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1756			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180	J	0.67	200
Boron	34	J	34	200
Calcium	76000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2300	J	72	5000
Magnesium	41000		34	5000
Manganese	9.6	J	0.41	15
Sodium	6900		590	5000
Nickel	8.5	J	3.2	40
Zinc	120		5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2152			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	110	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1759			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180	J	0.67	200
Boron	200	U	34	200
Calcium	46000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J	72	5000
Magnesium	26000		34	5000
Manganese	15	U	0.41	15
Sodium	3800	J	590	5000
Nickel	40	U	3.2	40
Zinc	8.5	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2157			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	44	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1803			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	190	J	0.67	200
Boron	200	U	34	200
Calcium	45000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1100	J	72	5000
Magnesium	26000		34	5000
Manganese	0.43	J	0.41	15
Sodium	3800	J	590	5000
Nickel	40	U	3.2	40
Zinc	8.0	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2202			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	45	B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

Client Sample ID: EB-01(20121213)

Lab Sample ID: 240-18953-8EB

Date Sampled: 12/14/2012 1045

Client Matrix: Water

Date Received: 12/15/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-71033	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-70671	Lab File ID:	I9010312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/03/2013 1815			Final Weight/Volume:	50 mL
Prep Date:	12/31/2012 0725				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	7.0	J	0.67	200
Boron	200	U	34	200
Calcium	1100	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	530	J	34	5000
Manganese	0.49	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	330	J ^	14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-63381	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-62876	Lab File ID:	M30206A1.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/06/2013 2207			Final Weight/Volume:	50 mL
Prep Date:	02/04/2013 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	1.2	J B	0.018	10

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry**Client Sample ID:** MW-1A(20121213)

Lab Sample ID: 240-18953-1

Date Sampled: 12/13/2012 1700

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.2		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1546						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1546						
Fluoride-Dissolved	0.036	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1546						
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1546						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1546						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1546						
Sulfate-Dissolved	6.0		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1546						
Bicarbonate Alkalinity as CaCO3	290		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2336						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2336						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430						
Prep Batch: 240-71194	Prep Date: 01/07/2013 0725						
Ammonia-Dissolved	0.063	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130						

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: MW-102A(20121213)

Lab Sample ID: 240-18953-2

Date Sampled: 12/14/2012 1150

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1724						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1724						
Fluoride-Dissolved	0.051	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1724						
Nitrate as N-Dissolved	1.3		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1724						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1724						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1724						
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1724						
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1825						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1825						
Total Phosphorus as P-Dissolved	0.080	J	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430						
Prep Batch: 240-71194	Prep Date: 01/07/2013 0732						
Ammonia-Dissolved	0.054	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130						

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: MW-102B(20121213)

Lab Sample ID: 240-18953-3

Date Sampled: 12/14/2012 1020

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.7		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1741						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1741						
Fluoride-Dissolved	0.030	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1741						
Nitrate as N-Dissolved	0.76		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1741						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1741						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1741						
Sulfate-Dissolved	7.3		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1741						
Bicarbonate Alkalinity as CaCO3	270		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1839						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1839						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430						
Prep Batch: 240-71194	Prep Date: 01/07/2013 0733						
Ammonia-Dissolved	0.047	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130						

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry**Client Sample ID: MW-108S(20121214)**

Lab Sample ID: 240-18953-5

Date Sampled: 12/14/2012 0830

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.0		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68852				Analysis Date: 12/15/2012 1652			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68853				Analysis Date: 12/15/2012 1652			
Fluoride-Dissolved	0.024	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68852				Analysis Date: 12/15/2012 1652			
Nitrate as N-Dissolved	0.28		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68853				Analysis Date: 12/15/2012 1652			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68852				Analysis Date: 12/15/2012 1652			
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68853				Analysis Date: 12/15/2012 1652			
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68852				Analysis Date: 12/15/2012 1652			
Bicarbonate Alkalinity as CaCO3	340		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069				Analysis Date: 12/23/2012 1903			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069				Analysis Date: 12/23/2012 1903			
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71294				Analysis Date: 01/07/2013 1430			
Prep Batch: 240-71194				Prep Date: 01/07/2013 0735			
Ammonia-Dissolved	0.046	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-71147				Analysis Date: 01/04/2013 1130			

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry

Client Sample ID: VOSS WELL(20121213)

Lab Sample ID: 240-18953-6

Date Sampled: 12/13/2012 1830

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.6		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1602						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1602						
Fluoride-Dissolved	0.051	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1602						
Nitrate as N-Dissolved	1.0		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1602						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1602						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1602						
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1602						
Bicarbonate Alkalinity as CaCO3	210		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2239						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69957	Analysis Date: 12/21/2012 2239						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1430						
Prep Batch: 240-71194	Prep Date: 01/07/2013 0726						
Ammonia-Dissolved	0.037	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1130						

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry**Client Sample ID:** DUP-01(20121213)

Lab Sample ID: 240-18953-7FD

Date Sampled: 12/13/2012 0000

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.8		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68852		Analysis Date: 12/15/2012 1619					
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68853		Analysis Date: 12/15/2012 1619					
Fluoride-Dissolved	0.048	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68852		Analysis Date: 12/15/2012 1619					
Nitrate as N-Dissolved	1.0	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68853		Analysis Date: 12/15/2012 1619					
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68852		Analysis Date: 12/15/2012 1619					
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68853		Analysis Date: 12/15/2012 1619					
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68852		Analysis Date: 12/15/2012 1619					
Bicarbonate Alkalinity as CaCO3	230		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69957		Analysis Date: 12/21/2012 2250					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-69957		Analysis Date: 12/21/2012 2250					
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71294		Analysis Date: 01/07/2013 1430					
Prep Batch: 240-71194		Prep Date: 01/07/2013 0727					
Ammonia-Dissolved	0.036	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-71147		Analysis Date: 01/04/2013 1130					

Analytical Data

Client: TRW Automotive

Job Number: 240-18953-1

General Chemistry**Client Sample ID:** EB-01(20121213)

Lab Sample ID: 240-18953-8EB

Date Sampled: 12/14/2012 1045

Client Matrix: Water

Date Received: 12/15/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	0.11	J	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1635						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1635						
Fluoride-Dissolved	0.031	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1635						
Nitrate as N-Dissolved	0.10	U	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1635						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1635						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-68853	Analysis Date: 12/15/2012 1635						
Sulfate-Dissolved	0.23	J	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-68852	Analysis Date: 12/15/2012 1635						
Bicarbonate Alkalinity as CaCO ₃	5.5		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1910						
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-70069	Analysis Date: 12/23/2012 1910						
Total Phosphorus as P-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-71294	Analysis Date: 01/07/2013 1432						
Prep Batch: 240-71194	Prep Date: 01/07/2013 0736						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-71147	Analysis Date: 01/04/2013 1335						

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-18953-1

Lab Section	Qualifier	Description
GC/MS VOA	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-70043					
LCS 240-70043/4	Lab Control Sample	T	Water	8260B	
MB 240-70043/5	Method Blank	T	Water	8260B	
240-18953-1	MW-1A(20121213)	T	Water	8260B	
240-18953-2	MW-102A(20121213)	T	Water	8260B	
240-18953-3	MW-102B(20121213)	T	Water	8260B	
240-18953-4TB	TRIP BLANK	T	Water	8260B	
240-18953-5	MW-108S(20121214)	T	Water	8260B	
240-18953-6	VOSS WELL(20121213)	T	Water	8260B	
240-18953-7FD	DUP-01(20121213)	T	Water	8260B	
240-18953-8EB	EB-01(20121213)	T	Water	8260B	
Analysis Batch:240-70091					
LCS 240-70091/4	Lab Control Sample	T	Water	8260B	
MB 240-70091/5	Method Blank	T	Water	8260B	
240-18953-5	MW-108S(20121214)	T	Water	8260B	
240-18953-6	VOSS WELL(20121213)	T	Water	8260B	
240-18953-7FD	DUP-01(20121213)	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 180-62876					
LCS 180-62876/2-A	Lab Control Sample	R	Water	3005A	
MB 180-62876/1-A	Method Blank	R	Water	3005A	
240-18953-1	MW-1A(20121213)	D	Water	3005A	
240-18953-2	MW-102A(20121213)	D	Water	3005A	
240-18953-3	MW-102B(20121213)	D	Water	3005A	
240-18953-5	MW-108S(20121214)	D	Water	3005A	
240-18953-6	VOSS WELL(20121213)	D	Water	3005A	
240-18953-7FD	DUP-01(20121213)	D	Water	3005A	
240-18953-8EB	EB-01(20121213)	D	Water	3005A	
Analysis Batch:180-63381					
LCS 180-62876/2-A	Lab Control Sample	R	Water	6020	180-62876
MB 180-62876/1-A	Method Blank	R	Water	6020	180-62876
240-18953-1	MW-1A(20121213)	D	Water	6020	180-62876
240-18953-2	MW-102A(20121213)	D	Water	6020	180-62876
240-18953-3	MW-102B(20121213)	D	Water	6020	180-62876
240-18953-5	MW-108S(20121214)	D	Water	6020	180-62876
240-18953-6	VOSS WELL(20121213)	D	Water	6020	180-62876
240-18953-7FD	DUP-01(20121213)	D	Water	6020	180-62876
240-18953-8EB	EB-01(20121213)	D	Water	6020	180-62876
Prep Batch: 240-70402					
LCS 240-70402/2-A	Lab Control Sample	R	Water	3005A	
MB 240-70402/1-A	Method Blank	R	Water	3005A	
240-18953-1	MW-1A(20121213)	D	Water	3005A	
Prep Batch: 240-70671					
LCS 240-70671/2-A	Lab Control Sample	R	Water	3005A	
MB 240-70671/1-A	Method Blank	R	Water	3005A	
240-18953-2	MW-102A(20121213)	D	Water	3005A	
240-18953-3	MW-102B(20121213)	D	Water	3005A	
240-18953-5	MW-108S(20121214)	D	Water	3005A	
240-18953-6	VOSS WELL(20121213)	D	Water	3005A	
240-18953-7FD	DUP-01(20121213)	D	Water	3005A	
240-18953-8EB	EB-01(20121213)	D	Water	3005A	
Analysis Batch:240-70678					
LCS 240-70402/2-A	Lab Control Sample	R	Water	6010B	240-70402
MB 240-70402/1-A	Method Blank	R	Water	6010B	240-70402
240-18953-1	MW-1A(20121213)	D	Water	6010B	240-70402
Analysis Batch:240-70946					
240-18953-1	MW-1A(20121213)	D	Water	6010B	240-70402

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:240-71033					
LCS 240-70671/2-A	Lab Control Sample	R	Water	6010B	240-70671
MB 240-70671/1-A	Method Blank	R	Water	6010B	240-70671
240-18953-2	MW-102A(20121213)	D	Water	6010B	240-70671
240-18953-3	MW-102B(20121213)	D	Water	6010B	240-70671
240-18953-5	MW-108S(20121214)	D	Water	6010B	240-70671
240-18953-6	VOSS WELL(20121213)	D	Water	6010B	240-70671
240-18953-7FD	DUP-01(20121213)	D	Water	6010B	240-70671
240-18953-8EB	EB-01(20121213)	D	Water	6010B	240-70671

Report Basis

D = Dissolved

R = Total Recoverable

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-68852					
LCS 240-68852/6	Lab Control Sample	T	Water	9056A	
MB 240-68852/5	Method Blank	T	Water	9056A	
240-18953-1	MW-1A(20121213)	D	Water	9056A	
240-18953-2	MW-102A(20121213)	D	Water	9056A	
240-18953-3	MW-102B(20121213)	D	Water	9056A	
240-18953-5	MW-108S(20121214)	D	Water	9056A	
240-18953-5MS	Matrix Spike	D	Water	9056A	
240-18953-6	VOSS WELL(20121213)	D	Water	9056A	
240-18953-7FD	DUP-01(20121213)	D	Water	9056A	
240-18953-8EB	EB-01(20121213)	D	Water	9056A	
Analysis Batch:240-68853					
LCS 240-68853/6	Lab Control Sample	T	Water	9056A	
MB 240-68853/5	Method Blank	T	Water	9056A	
240-18953-1	MW-1A(20121213)	D	Water	9056A	
240-18953-2	MW-102A(20121213)	D	Water	9056A	
240-18953-3	MW-102B(20121213)	D	Water	9056A	
240-18953-5	MW-108S(20121214)	D	Water	9056A	
240-18953-5MS	Matrix Spike	D	Water	9056A	
240-18953-6	VOSS WELL(20121213)	D	Water	9056A	
240-18953-7FD	DUP-01(20121213)	D	Water	9056A	
240-18953-8EB	EB-01(20121213)	D	Water	9056A	
Analysis Batch:240-69957					
LCS 240-69957/2	Lab Control Sample	T	Water	SM 2320B	
MB 240-69957/3	Method Blank	T	Water	SM 2320B	
240-18953-1	MW-1A(20121213)	T	Water	SM 2320B	
240-18953-6	VOSS WELL(20121213)	T	Water	SM 2320B	
240-18953-6DU	Duplicate	T	Water	SM 2320B	
240-18953-7FD	DUP-01(20121213)	T	Water	SM 2320B	
240-18953-7MS	Matrix Spike	T	Water	SM 2320B	
240-18953-7MSD	Matrix Spike Duplicate	T	Water	SM 2320B	
Analysis Batch:240-70069					
LCS 240-70069/3	Lab Control Sample	T	Water	SM 2320B	
MB 240-70069/4	Method Blank	T	Water	SM 2320B	
240-18953-2	MW-102A(20121213)	T	Water	SM 2320B	
240-18953-3	MW-102B(20121213)	T	Water	SM 2320B	
240-18953-5	MW-108S(20121214)	T	Water	SM 2320B	
240-18953-5DU	Duplicate	T	Water	SM 2320B	
240-18953-8EB	EB-01(20121213)	T	Water	SM 2320B	

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-71147					
LCS 240-71147/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-71147/7	Method Blank	T	Water	SM4500 NH3 -F	
240-18953-1	MW-1A(20121213)	D	Water	SM4500 NH3 -F	
240-18953-2	MW-102A(20121213)	D	Water	SM4500 NH3 -F	
240-18953-3	MW-102B(20121213)	D	Water	SM4500 NH3 -F	
240-18953-5	MW-108S(20121214)	D	Water	SM4500 NH3 -F	
240-18953-6	VOSS WELL(20121213)	D	Water	SM4500 NH3 -F	
240-18953-7FD	DUP-01(20121213)	D	Water	SM4500 NH3 -F	
240-18953-7MS	Matrix Spike	D	Water	SM4500 NH3 -F	
240-18953-7MSD	Matrix Spike Duplicate	D	Water	SM4500 NH3 -F	
240-18953-8EB	EB-01(20121213)	D	Water	SM4500 NH3 -F	
Prep Batch: 240-71194					
LCS 240-71194/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-71194/10-A	Method Blank	T	Water	365.2/365.3/365	
240-18953-1	MW-1A(20121213)	D	Water	365.2/365.3/365	
240-18953-2	MW-102A(20121213)	D	Water	365.2/365.3/365	
240-18953-3	MW-102B(20121213)	D	Water	365.2/365.3/365	
240-18953-5	MW-108S(20121214)	D	Water	365.2/365.3/365	
240-18953-6	VOSS WELL(20121213)	D	Water	365.2/365.3/365	
240-18953-7FD	DUP-01(20121213)	D	Water	365.2/365.3/365	
240-18953-8EB	EB-01(20121213)	D	Water	365.2/365.3/365	
Analysis Batch:240-71294					
LCS 240-71194/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-71194
MB 240-71194/10-A	Method Blank	T	Water	SM 4500 P E	240-71194
240-18953-1	MW-1A(20121213)	D	Water	SM 4500 P E	240-71194
240-18953-2	MW-102A(20121213)	D	Water	SM 4500 P E	240-71194
240-18953-3	MW-102B(20121213)	D	Water	SM 4500 P E	240-71194
240-18953-5	MW-108S(20121214)	D	Water	SM 4500 P E	240-71194
240-18953-6	VOSS WELL(20121213)	D	Water	SM 4500 P E	240-71194
240-18953-7FD	DUP-01(20121213)	D	Water	SM 4500 P E	240-71194
240-18953-8EB	EB-01(20121213)	D	Water	SM 4500 P E	240-71194

Report Basis

D = Dissolved

T = Total

Client: TRW Automotive

Job Number: 240-18953-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-18953-1	MW-1A(20121213)	106	86	78	97
240-18953-2	MW-102A(20121213)	107	83	79	96
240-18953-3	MW-102B(20121213)	110	86	81	98
240-18953-4	TRIP BLANK	103	83	80	95
240-18953-5	MW-108S(20121214)	105	89	82	97
240-18953-5	MW-108S(20121214)	106	84	79	97
240-18953-6	VOSS WELL(20121213)	104	83	79	96
240-18953-6	VOSS WELL(20121213)	108	83	80	99
240-18953-7	DUP-01(20121213)	105	86	83	95
240-18953-7	DUP-01(20121213)	107	85	78	97
240-18953-8	EB-01(20121213)	103	86	81	96
MB 240-70043/5		107	85	79	96
MB 240-70091/5		108	85	80	101
LCS 240-70043/4		106	84	84	97
LCS 240-70091/4		107	85	84	99

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-70043

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-70043/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/24/2012 2020
Prep Date: 12/24/2012 2020
Leach Date: N/A

Analysis Batch: 240-70043
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX11
Lab File ID: UXJ9255.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.341	J	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-70043

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-70043/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/24/2012 2020
 Prep Date: 12/24/2012 2020
 Leach Date: N/A

Analysis Batch: 240-70043
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ9255.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	107	66 - 117
Dibromofluoromethane (Surr)	85	75 - 121
1,2-Dichloroethane-d4 (Surr)	79	63 - 129
Toluene-d8 (Surr)	96	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Lab Control Sample - Batch: 240-70043

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-70043/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/24/2012 1935
Prep Date: 12/24/2012 1935
Leach Date: N/A

Analysis Batch: 240-70043
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX11
Lab File ID: UXJ9253.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	8.89	89	83 - 112	
Bromobenzene	10.0	9.95	99	76 - 115	
Bromoform	10.0	8.81	88	40 - 131	
Bromomethane	10.0	8.55	85	11 - 185	
Carbon tetrachloride	10.0	8.18	82	66 - 128	
Chlorobenzene	10.0	10.1	101	85 - 110	
Chloroethane	10.0	9.88	99	25 - 153	
Chloroform	10.0	8.84	88	79 - 117	
Chloromethane	10.0	7.84	78	44 - 126	
2-Chlorotoluene	10.0	9.50	95	76 - 116	
4-Chlorotoluene	10.0	10.0	100	77 - 115	
cis-1,2-Dichloroethene	10.0	8.88	89	80 - 113	
cis-1,3-Dichloropropene	10.0	8.55	86	61 - 115	
Dibromomethane	10.0	9.26	93	81 - 120	
1,2-Dichlorobenzene	10.0	9.71	97	81 - 110	
1,3-Dichlorobenzene	10.0	9.82	98	80 - 110	
1,4-Dichlorobenzene	10.0	9.75	98	82 - 110	
Bromodichloromethane	10.0	9.04	90	72 - 121	
Dichlorodifluoromethane	10.0	7.94	79	19 - 129	
1,1-Dichloroethane	10.0	9.10	91	82 - 115	
1,2-Dichloroethane	10.0	9.20	92	71 - 127	
1,1-Dichloroethene	10.0	8.09	81	78 - 131	
1,2-Dichloropropane	10.0	8.89	89	81 - 115	
1,3-Dichloropropane	10.0	10.2	102	79 - 116	
2,2-Dichloropropane	10.0	8.05	81	50 - 129	
1,1-Dichloropropene	10.0	8.55	86	83 - 114	
Ethylbenzene	10.0	9.82	98	83 - 112	
Hexachlorobutadiene	10.0	6.71	67	36 - 134	
Isopropylbenzene	10.0	9.64	96	75 - 114	
p-Isopropyltoluene	10.0	9.63	96	74 - 120	
Methylene Chloride	10.0	7.86	79	66 - 131	
m-Xylene & p-Xylene	20.0	19.5	97	83 - 113	
Naphthalene	10.0	4.89	49	32 - 141	
n-Butylbenzene	10.0	8.99	90	66 - 125	
N-Propylbenzene	10.0	9.82	98	74 - 121	
o-Xylene	10.0	10.3	103	83 - 113	
sec-Butylbenzene	10.0	9.10	91	70 - 117	
Styrene	10.0	9.96	100	79 - 114	
tert-Butylbenzene	10.0	9.51	95	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	10.0	100	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	9.45	95	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Lab Control Sample - Batch: 240-70043

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-70043/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/24/2012 1935
 Prep Date: 12/24/2012 1935
 Leach Date: N/A

Analysis Batch: 240-70043
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ9253.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	9.10	91	79 - 114	
Toluene	10.0	9.80	98	84 - 111	
trans-1,2-Dichloroethene	10.0	8.57	86	83 - 117	
trans-1,3-Dichloropropene	10.0	9.67	97	58 - 117	
1,2,3-Trichlorobenzene	10.0	4.59	46	54 - 126	*
1,2,4-Trichlorobenzene	10.0	6.68	67	48 - 135	
1,1,1-Trichloroethane	10.0	8.20	82	74 - 118	
1,1,2-Trichloroethane	10.0	10.2	102	80 - 112	
Trichloroethene	10.0	9.08	91	76 - 117	
Trichlorofluoromethane	10.0	9.49	95	49 - 157	
1,2,3-Trichloropropane	10.0	9.85	99	73 - 129	
1,2,4-Trimethylbenzene	10.0	9.47	95	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.72	97	72 - 118	
Vinyl chloride	10.0	7.05	71	53 - 127	
Bromochloromethane	10.0	8.90	89	77 - 120	
1,2-Dibromoethane	10.0	9.84	98	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	106		66 - 117		
Dibromofluoromethane (Surr)	84		75 - 121		
1,2-Dichloroethane-d4 (Surr)	84		63 - 129		
Toluene-d8 (Surr)	97		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-70091

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-70091/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/26/2012 1139
 Prep Date: 12/26/2012 1139
 Leach Date: N/A

Analysis Batch: 240-70091
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ9282.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.567	J	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-70091

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-70091/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/26/2012 1139
 Prep Date: 12/26/2012 1139
 Leach Date: N/A

Analysis Batch: 240-70091
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ9282.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	108	66 - 117
Dibromofluoromethane (Surr)	85	75 - 121
1,2-Dichloroethane-d4 (Surr)	80	63 - 129
Toluene-d8 (Surr)	101	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Lab Control Sample - Batch: 240-70091

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-70091/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/26/2012 1054
 Prep Date: 12/26/2012 1054
 Leach Date: N/A

Analysis Batch: 240-70091
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ9280.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.63	96	83 - 112	
Bromobenzene	10.0	10.9	109	76 - 115	
Bromoform	10.0	10.0	100	40 - 131	
Bromomethane	10.0	9.44	94	11 - 185	
Carbon tetrachloride	10.0	9.17	92	66 - 128	
Chlorobenzene	10.0	10.7	107	85 - 110	
Chloroethane	10.0	10.6	106	25 - 153	
Chloroform	10.0	9.33	93	79 - 117	
Chloromethane	10.0	9.10	91	44 - 126	
2-Chlorotoluene	10.0	10.8	108	76 - 116	
4-Chlorotoluene	10.0	10.4	104	77 - 115	
cis-1,2-Dichloroethene	10.0	9.40	94	80 - 113	
cis-1,3-Dichloropropene	10.0	8.97	90	61 - 115	
Dibromomethane	10.0	9.63	96	81 - 120	
1,2-Dichlorobenzene	10.0	10.4	104	81 - 110	
1,3-Dichlorobenzene	10.0	10.5	105	80 - 110	
1,4-Dichlorobenzene	10.0	10.4	104	82 - 110	
Bromodichloromethane	10.0	9.43	94	72 - 121	
Dichlorodifluoromethane	10.0	10.5	105	19 - 129	
1,1-Dichloroethane	10.0	9.60	96	82 - 115	
1,2-Dichloroethane	10.0	9.66	97	71 - 127	
1,1-Dichloroethene	10.0	9.28	93	78 - 131	
1,2-Dichloropropane	10.0	9.65	96	81 - 115	
1,3-Dichloropropane	10.0	10.9	109	79 - 116	
2,2-Dichloropropane	10.0	9.48	95	50 - 129	
1,1-Dichloropropene	10.0	9.40	94	83 - 114	
Ethylbenzene	10.0	11.0	110	83 - 112	
Hexachlorobutadiene	10.0	7.63	76	36 - 134	
Isopropylbenzene	10.0	10.5	105	75 - 114	
p-Isopropyltoluene	10.0	10.8	108	74 - 120	
Methylene Chloride	10.0	8.65	86	66 - 131	
m-Xylene & p-Xylene	20.0	21.2	106	83 - 113	
Naphthalene	10.0	4.75	47	32 - 141	
n-Butylbenzene	10.0	10.2	102	66 - 125	
N-Propylbenzene	10.0	10.6	106	74 - 121	
o-Xylene	10.0	11.0	110	83 - 113	
sec-Butylbenzene	10.0	10.4	104	70 - 117	
Styrene	10.0	10.6	106	79 - 114	
tert-Butylbenzene	10.0	10.4	104	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	10.6	106	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Lab Control Sample - Batch: 240-70091

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-70091/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/26/2012 1054
 Prep Date: 12/26/2012 1054
 Leach Date: N/A

Analysis Batch: 240-70091
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ9280.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	10.6	106	79 - 114	
Toluene	10.0	10.7	107	84 - 111	
trans-1,2-Dichloroethene	10.0	9.09	91	83 - 117	
trans-1,3-Dichloropropene	10.0	10.5	105	58 - 117	
1,2,3-Trichlorobenzene	10.0	4.51	45	54 - 126	*
1,2,4-Trichlorobenzene	10.0	7.00	70	48 - 135	
1,1,1-Trichloroethane	10.0	9.18	92	74 - 118	
1,1,2-Trichloroethane	10.0	10.7	107	80 - 112	
Trichloroethene	10.0	9.72	97	76 - 117	
Trichlorofluoromethane	10.0	11.4	114	49 - 157	
1,2,3-Trichloropropane	10.0	10.2	102	73 - 129	
1,2,4-Trimethylbenzene	10.0	10.5	105	76 - 120	
1,3,5-Trimethylbenzene	10.0	10.7	107	72 - 118	
Vinyl chloride	10.0	8.52	85	53 - 127	
Bromochloromethane	10.0	9.08	91	77 - 120	
1,2-Dibromoethane	10.0	10.0	100	79 - 113	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	107	66 - 117
Dibromofluoromethane (Surr)	85	75 - 121
1,2-Dichloroethane-d4 (Surr)	84	63 - 129
Toluene-d8 (Surr)	99	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-70402

Lab Sample ID: MB 240-70402/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/30/2012 1246
Prep Date: 12/28/2012 0827
Leach Date: N/A

Analysis Batch: 240-70678
Prep Batch: 240-70402
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9123012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	200	U	0.67	200
Boron	200	U	34	200
Calcium	5000	U	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	5000	U	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-70402

Lab Sample ID: LCS 240-70402/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/30/2012 1250
Prep Date: 12/28/2012 0827
Leach Date: N/A

Analysis Batch: 240-70678
Prep Batch: 240-70402
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9123012A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2100	105	80 - 120	
Boron	1000	1120	112	80 - 120	
Calcium	50000	52300	105	80 - 120	
Chromium	200	211	106	80 - 120	
Iron	1000	1070	107	80 - 120	
Potassium	50000	49700	99	80 - 120	
Magnesium	50000	53300	107	80 - 120	
Manganese	500	527	105	80 - 120	
Sodium	50000	53000	106	80 - 120	
Nickel	500	528	106	80 - 120	
Zinc	500	525	105	80 - 120	
Lead	500	509	102	80 - 120	
Lithium	1000	1020	102	80 - 120	
SiO2, Silica	2140	2510	117	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-70671

Lab Sample ID: MB 240-70671/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/03/2013 1700
Prep Date: 12/31/2012 0725
Leach Date: N/A

Analysis Batch: 240-71033
Prep Batch: 240-70671
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9010312A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	200	U	0.67	200
Boron	200	U	34	200
Calcium	5000	U	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	5000	U	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-70671

Lab Sample ID: LCS 240-70671/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/03/2013 1704
Prep Date: 12/31/2012 0725
Leach Date: N/A

Analysis Batch: 240-71033
Prep Batch: 240-70671
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9010312A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2060	103	80 - 120	
Boron	1000	1070	107	80 - 120	
Calcium	50000	51300	103	80 - 120	
Chromium	200	209	104	80 - 120	
Iron	1000	1060	106	80 - 120	
Potassium	50000	49200	98	80 - 120	
Magnesium	50000	51400	103	80 - 120	
Manganese	500	539	108	80 - 120	
Sodium	50000	50500	101	80 - 120	
Nickel	500	523	105	80 - 120	
Zinc	500	522	104	80 - 120	
Lead	500	517	103	80 - 120	
Lithium	1000	1030	103	80 - 120	
SiO2, Silica	2140	2300	107	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 180-62876

Lab Sample ID: MB 180-62876/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/06/2013 2019
Prep Date: 02/04/2013 1342
Leach Date: N/A

Analysis Batch: 180-63381
Prep Batch: 180-62876
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
Lab File ID: M30206A1.xml
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.115	J	0.018	10

Lab Control Sample - Batch: 180-62876

Lab Sample ID: LCS 180-62876/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/06/2013 2024
Prep Date: 02/04/2013 1342
Leach Date: N/A

Analysis Batch: 180-63381
Prep Batch: 180-62876
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: M
Lab File ID: M30206A1.xml
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	927	93	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-68852

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-68852/5	Analysis Batch:	240-68852	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0015879-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2012 1513	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-68852

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-68852/6	Analysis Batch:	240-68852	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0015879-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2012 1529	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	51.8	104	90 - 110	
Fluoride-Dissolved	2.50	2.64	105	90 - 110	
Bromide-Dissolved	10.0	10.4	104	90 - 110	
Sulfate-Dissolved	50.0	49.1	98	90 - 110	

Matrix Spike - Batch: 240-68852

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-18953-5	Analysis Batch:	240-68852	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	12240-0015879-012.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2012 1708	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	7.0		50.0	65.0	116	80 - 120	
Fluoride-Dissolved	0.024	J	2.50	2.75	109	80 - 120	
Bromide-Dissolved	0.50	U	10.0	10.8	108	80 - 120	
Sulfate-Dissolved	12		50.0	67.3	110	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-68853

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-68853/5	Analysis Batch:	240-68853	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0015879-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2012 1513	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-68853

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-68853/6	Analysis Batch:	240-68853	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0015879-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2012 1529	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.68	107	90 - 110	
Nitrate as N-Dissolved	2.50	2.59	104	90 - 110	
Orthophosphate-Dissolved	2.50	2.32	93	90 - 110	

Matrix Spike - Batch: 240-68853

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-18953-5	Analysis Batch:	240-68853	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	12240-0015879-012.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2012 1708	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	0.10	U	2.50	2.79	112	80 - 120	
Nitrate as N-Dissolved	0.28		2.50	3.04	111	80 - 120	
Orthophosphate-Dissolved	0.50	U	2.50	3.70	148	80 - 120	F

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-69957

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-69957/3	Analysis Batch:	240-69957	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122112alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/21/2012 1959	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO3	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO3	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-69957

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-69957/2	Analysis Batch:	240-69957	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122112alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/21/2012 1952	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	58.7	57.5	98	90 - 127	

Matrix Spike/

Method: SM 2320B

Matrix Spike Duplicate Recovery Report - Batch: 240-69957

Preparation: N/A

MS Lab Sample ID:	240-18953-7	Analysis Batch:	240-69957	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122112alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/21/2012 2307			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-18953-7	Analysis Batch:	240-69957	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122112alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/21/2012 2325			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Alkalinity	79	81	10 - 160	1	24		

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Duplicate - Batch: 240-69957

Method: SM 2320B

Preparation: N/A

Lab Sample ID: 240-18953-6

Analysis Batch: 240-69957

Instrument ID: STEVE

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 122112alk.TXT

Dilution: 1.0

Leach Batch: N/A

Initial Weight/Volume: 50 mL

Analysis Date: 12/21/2012 2230

Units: mg/L

Final Weight/Volume: 50 mL

Prep Date: N/A

Leach Date: N/A

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Bicarbonate Alkalinity as CaCO ₃	210		210	0.1	20	
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	NC	20	U

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-70069

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-70069/4	Analysis Batch:	240-70069	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122312alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/23/2012 1456	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-70069

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-70069/3	Analysis Batch:	240-70069	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122312alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/23/2012 1450	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	58.7	58.4	99	90 - 127	

Duplicate - Batch: 240-70069

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	240-18953-5	Analysis Batch:	240-70069	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122312alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/23/2012 1851	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bicarbonate Alkalinity as CaCO ₃	340	348	3	20	
Carbonate Alkalinity as CaCO ₃	5.0 U	5.0	NC	20	U

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-71194

Method: SM 4500 P E
Preparation: 365.2/365.3/365

Lab Sample ID: MB 240-71194/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/07/2013 1427
Prep Date: 01/07/2013 0711
Leach Date: N/A

Analysis Batch: 240-71294
Prep Batch: 240-71194
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP010713.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as P-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-71194

Method: SM 4500 P E
Preparation: 365.2/365.3/365

Lab Sample ID: LCS 240-71194/11-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/07/2013 1427
Prep Date: 01/07/2013 0712
Leach Date: N/A

Analysis Batch: 240-71294
Prep Batch: 240-71194
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP010713.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as P-Dissolved	5.50	5.49	100	53 - 134	

Quality Control Results

Client: TRW Automotive

Job Number: 240-18953-1

Method Blank - Batch: 240-71147

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	MB 240-71147/7	Analysis Batch:	240-71147	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010413.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/04/2013 1050	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.0583	J	0.035	0.20

Lab Control Sample - Batch: 240-71147

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	LCS 240-71147/8	Analysis Batch:	240-71147	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010413.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/04/2013 1050	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	8.93	8.85	99	85 - 114	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-71147

Method: SM4500 NH3 -F
Preparation: N/A

MS Lab Sample ID:	240-18953-7	Analysis Batch:	240-71147	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010413.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/04/2013 1130			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-18953-7	Analysis Batch:	240-71147	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010413.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/04/2013 1131			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia-Dissolved	109	111	75 - 125	1	20		

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

North Canton OH

Regulatory program:

☐ DW☐ NPDES☐ RCRA☐ Other

TestAmerica Laboratories, Inc.

Client Contact		Client Project Manager:		Site Contact:		Lab Contact:		COC No:	
Company Name: ARCADIS		John Shanfelt		Ben Doran		Deniese Pohl		049228	
Address: 8725 Rosehill Rd		Telephone: 913 492-6900		Telephone:		Telephone:		1 of 1 COCs	
City/State/Zip: Lenexa, KS 66215		Email: john.shanfelt		TAT if different than below: STD		Analyzes		For Reference	
Phone: 913 492-0900		Method of Shipment/Carrier: FedEx Drop off		<input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		VOCs 82603 Metals 60103/6020 Anions 90651 Alkalinity 23203 Ammonia/Total Phosphorus		<input type="checkbox"/> Volatiles <input type="checkbox"/> Semivolatiles <input type="checkbox"/> Inorganics <input type="checkbox"/> Metals <input type="checkbox"/> Anions <input type="checkbox"/> Cations <input type="checkbox"/> Other	
Project Name: IRW-DWZ		Shipping/Tracking No: 867236466838		TAT if different than below: STD		VOCs 82603 Metals 60103/6020 Anions 90651 Alkalinity 23203 Ammonia/Total Phosphorus		<input type="checkbox"/> Volatiles <input type="checkbox"/> Semivolatiles <input type="checkbox"/> Inorganics <input type="checkbox"/> Metals <input type="checkbox"/> Anions <input type="checkbox"/> Cations <input type="checkbox"/> Other	
Project Number: K0001590.0003.00008		P.O.#:		Consent to Test/Release		VOCs 82603 Metals 60103/6020 Anions 90651 Alkalinity 23203 Ammonia/Total Phosphorus		<input type="checkbox"/> Volatiles <input type="checkbox"/> Semivolatiles <input type="checkbox"/> Inorganics <input type="checkbox"/> Metals <input type="checkbox"/> Anions <input type="checkbox"/> Cations <input type="checkbox"/> Other	
Sample Identification		Sample Date		Sample Time		Analysis		Sample Specific Notes / Special Instructions	
MW-1A (20121213)		12-13-12		1700		X X X X X			
MW-102A (20121214)		12/14/12		1150		X X X X X			
MW-102B (20121214)		12/14/12		1020		X X X X X			
Trip Blank		12/14/12		—		X			
MW-107S (20121214)		12/14/12		0830		X X X X X			
Voss Well (20121213)		12/13/12		1830		X X X X X			
Dwp-01 (20121213)		12/13/12		—		X X X X X			
EB-01 (20121214)		12/14/12		1045		X X X X X			
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return to Client		Disposal By Lab		Archive For	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For							
Special Instructions/QC Requirements & Comments:									
→ Real ID: MW-108S (20121214)									
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
[Signature]		ARCADIS		12/14/12 1600		[Signature]		TA	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

North Canton OH

Regulatory program:

☐ DW☐ NPDES☐ RCRA☐ Other

TestAmerica Laboratories, Inc.

Client Contact		Client Project Manager:		Site Contact:		Lab Contact:		COC No:											
Company Name: ARCADIS		John Shonfelt		Ben Doran		Deniese Pohl		049228											
Address: 8725 Rosehill Rd		Telephone: 913 492-6900		Telephone:		Telephone:		1 of 1 COCs											
City/State/Zip: Lenexa, KS 66215		Email: john.shonfelt		Analysis Turnaround Time (in BUS days)		Analyses		For lab use only											
Phone: 913 492-0900				TAT if different from below				Walk-in client <input type="checkbox"/>											
Project Name: TRW-DUZ		Method of Shipment/Carrier: FedEx Drop off		<input type="checkbox"/> 3 weeks				Lab pickup <input type="checkbox"/>											
Project Number: K0001590.0003.00008		Shipping/Tracking No: 867236466838		<input type="checkbox"/> 2 weeks				Lab sampling <input type="checkbox"/>											
PO #				<input type="checkbox"/> 1 week				Job/SDG No:											
				<input type="checkbox"/> 2 days															
				<input type="checkbox"/> 1 day															
Sample Identification		Sample Date	Sample Time	Matrix	Containers & Preservatives		Altered Sample (Y/N)	Composite (Y/N)	Sample Specific Notes / Special Instructions:										
				Air	Aqueous	Sediment	Solid	Other:											
				H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Uapres										
MW-1A (20121213)	12-13-12	1700	X		1	2	3		2	X	X	X	X	X					
MW-102A (20121214)	12/14/12	1150	X		1	2	3		2	X	X	X	X	X					
MW-102B (20121214)	12/14/12	1020	X		1	2	3		2	X	X	X	X	X					
Trip Blank	12/14/12	—	X				2			X									
MW-107s (20121214)	12/14/12	0830	X		1	2	3		2	X	X	X	X	X					
Voss Well (20121213)	12/13/12	1830	X		1	2	3		2	X	X	X	X	X					
Dup-01 (20121213)	12/13/12	—	X		1	2	3		2	X	X	X	X	X					
EB-01 (20121214)	12/14/12	1045	X		1	2	3		2	X	X	X	X	X					
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Special Instructions/QC Requirements & Comments:																			
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received in Laboratory by:	
[Signature]		ARCADIS		12/14/12 1600		Deniese Pohl		TA		12/15/12 0900									
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received in Laboratory by:	

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03/07/2013

TestAmerica Canton Sample Receipt Form/Narrative

Login # : 18953

Client ArredisSite Name 0001390-003.00008By: Paul D. EvansCooler Received on 12-15-12Opened on 12-19-12

(Signature)

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier OtherTestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2 °C) Observed Sample Temp. °C Corrected Sample Temp. °CIR GUN# 4G (CF 0 °C) Observed Sample Temp. 28 °C Corrected Sample Temp. 28 °CIR GUN# 5G (CF 0 °C) Observed Sample Temp. °C Corrected Sample Temp. °CIR GUN# 8 (CF 0 °C) Observed Sample Temp. °C Corrected Sample Temp. °C☐ Multiple
on Back2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 0Yes No

-Were custody seals on the outside of the cooler(s) signed & dated?

Yes No NA

-Were custody seals on the bottle(s)?

Yes No

3. Shippers' packing slip attached to the cooler(s)?

Yes No

4. Did custody papers accompany the sample(s)?

Yes No

5. Were the custody papers relinquished & signed in the appropriate place?

Yes No

6. Did all bottles arrive in good condition (Unbroken)?

Yes No

7. Could all bottle labels be reconciled with the COC?

Yes No

8. Were correct bottle(s) used for the test(s) indicated?

Yes No

9. Sufficient quantity received to perform indicated analyses?

Yes No

10. Were sample(s) at the correct pH upon receipt?

Yes No NA

11. Were VOAs on the COC?

Yes No

12. Were air bubbles >6 mm in any VOA vials?

Yes No NA

13. Was a trip blank present in the cooler(s)?

Yes NoContacted PM Date by via Verbal Voice Mail OtherConcerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.Sample(s) were received in a broken container.Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO₃; Sulfuric Acid Lot# 051012-H₂SO₄; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

SOP: NC-SC-0005, Sample Receiving

C:\Users\livengoodc\AppData\Local\Microsoft\Windows\Temporary Internet Files\OLKD16\COOLER_TestAmerica_Rev 88_110712.rls.doc

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03/07/2013

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-18953-1

Login Number: 18953
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 02/01/13 11:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PROJECT NO. KC001590.0003.00002

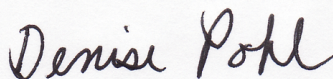
TRW OGVOU2

Lot #: A1A060436

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
denise.pohl@testamericainc.com

Approved for release.
Denise Pohl
Project Manager
1/18/2011 2:22 PM

January 18, 2011

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com



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CASE NARRATIVE

CASE NARRATIVE

A1A060436

The following report contains the analytical results for one water sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGVOU2 Site, project number KC001590.0003.00002. The samples were received January 06, 2011, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Alex Walter, Paul Jack, ESPM, John Shonfelt, and Kirsten.Wright on January 10, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.0°C.

GC/MS VOLATILES

The matrix spike/matrix spike duplicate(s) for batch(es) 1010112 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA _CWA 032609.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A1A060436

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-108BH@195(20110105) 01/05/11 08:30 001				
Dichlorofluoromethane	26	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	4.7	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A1A060436

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A1A060436

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MC3QN	001	MW-108BH@195(20110105)	01/05/11	08:30
MC3QT	002	TB-20110105	01/05/11	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

TestAmerica Cooler Receipt Form/Narrative

North Canton Facility

Lot Number: A1A060436

Client Aradix Project TRW/OGV By: [Signature]
Cooler Received on 1/6/11 Opened on 1/6/11 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐
TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
If YES, Quantity 1 Quantity Unsalvageable _____
Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
Were custody seals on the bottle(s)? Yes ☐ No ☒
If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐ Other _____
6. Cooler temperature upon receipt 1.0 °C See back of form for multiple coolers/temps ☐
METHOD: IR ☒ Other ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample
Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium
Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-
(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

North Canton Facility

Client ID

pH

Date

Initials

Cooler #

Temp. °C

Method

Coolant

[illegible]

GCMS VOLATILE DATA

QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Lot #: A1A060436

Extraction: XXI25QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	MW-108BH@195 (20110105)	100	99	92	88	00
02	TB-20110105	98	98	90	88	00
03	INTRA-LAB QC	97	96	87	91	00
04	METHOD BLK. MC6XD1AA	96	96	92	88	00
05	LCS MC6XD1AC	102	108	84	103	00
06	LAB MS/MSD D	95	92	94	99	00
07	LAB MS/MSD S	96	94	91	98	00

SURROGATES

SRG01 = Dibromofluoromethane
 SRG02 = 1,2-Dichloroethane-d4
 SRG03 = Toluene-d8
 SRG04 = 4-Bromofluorobenzene

QC LIMITS

(75-121)
 (63-129)
 (74-115)
 (66-117)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Lot #: A1A100000

WO #: MC6XD1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Chloromethane	10	8.0	80	44 - 126	
Bromomethane	10	10	104	11 - 185	
Vinyl chloride	10	11	109	53 - 127	
Chloroethane	10	11	112	25 - 153	
Methylene chloride	10	9.7	97	66 - 131	
Acetone	20	21	103	43 - 136	
Carbon disulfide	10	11	108	62 - 142	
1,1-Dichloroethene	10	10	103	78 - 131	
1,1-Dichloroethane	10	9.9	99	82 - 115	
1,2-Dichloroethene (total	20	19	97	82 - 114	
Chloroform	10	11	107	79 - 117	
1,2-Dichloroethane	10	12	119	71 - 127	
2-Butanone	20	22	108	60 - 126	
1,1,1-Trichloroethane	10	11	113	74 - 118	
Carbon tetrachloride	10	13	131*	66 - 128	a
Bromodichloromethane	10	11	109	72 - 121	
1,2-Dichloropropane	10	9.9	99	81 - 115	
cis-1,3-Dichloropropene	10	10	101	61 - 115	
Trichloroethene	10	11	105	76 - 117	
Dibromochloromethane	10	9.9	99	64 - 119	
1,1,2-Trichloroethane	10	9.4	94	80 - 112	
Benzene	10	9.9	99	83 - 112	
trans-1,3-Dichloropropene	10	9.5	95	58 - 117	
Bromoform	10	8.8	88	40 - 131	
4-Methyl-2-pentanone	20	21	107	63 - 128	
2-Hexanone	20	19	97	55 - 133	
Tetrachloroethene	10	10	103	79 - 114	
1,1,2,2-Tetrachloroethane	10	8.4	84	68 - 118	
Toluene	10	8.5	85	84 - 111	
Chlorobenzene	10	9.2	92	85 - 110	
Ethylbenzene	10	9.6	96	83 - 112	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Lot #: A1A100000

WO #: MC6XD1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Styrene	10	10	101	79- 114	
Xylenes (total)	30	29	97	83- 112	
cis-1,2-Dichloroethene	10	9.6	96	80- 113	
trans-1,2-Dichloroethene	10	9.8	98	83- 117	
Dichlorodifluoromethane	10	8.2	82	19- 129	
Trichlorofluoromethane	10	14	138	49- 157	
1,1,2-Trichloro-1,2,2-tri	10	16	155*	74- 151	a
Methyl acetate	10	9.9	99	58- 131	
Methyl tert-butyl ether (	10	9.9	99	52- 144	
Cyclohexane	10	12	116	54- 121	
Methylcyclohexane	10	13	126	56- 127	
1,2-Dibromoethane	10	9.8	98	79- 113	
Isopropylbenzene	10	10	100	75- 114	
1,3-Dichlorobenzene	10	8.7	87	80- 110	
1,4-Dichlorobenzene	10	8.7	87	82- 110	
1,2-Dichlorobenzene	10	9.0	90	81- 110	
1,2-Dibromo-3-chloropropa	10	9.5	95	42- 136	
1,2,4-Trichlorobenzene	10	10	101	48- 135	
Methyl tert-butyl ether	10	9.9	99	52- 144	
n-Hexane	10	13	133	66- 137	
o-Xylene	10	9.8	98	83- 113	
m-Xylene & p-Xylene	20	19	97	83- 113	
2-Chloroethyl vinyl ether	10	8.4	84	52- 131	
Acetonitrile	30	50	166	15- 184	
Acrolein	30	31	103	51- 170	
Vinyl acetate	10	9.4	94	46- 161	
Acrylonitrile	30	29	98	66- 132	
Bromobenzene	10	8.4	84	76- 115	
Bromochloromethane	10	10	103	77- 120	
n-Butylbenzene	10	10	100	66- 125	
sec-Butylbenzene	10	9.5	95	70- 117	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Lot #: A1A100000

WO #: MC6XD1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
tert-Butylbenzene	10	10	103	71- 115	
2-Chlorotoluene	10	8.6	86	76- 116	
4-Chlorotoluene	10	8.8	88	77- 115	
Dibromomethane	10	11	113	81- 120	
1,3-Dichloropropane	10	9.5	95	79- 116	
2,2-Dichloropropane	10	10	103	50- 129	
1,1-Dichloropropene	10	11	108	83- 114	
Hexachlorobutadiene	10	11	105	36- 134	
Iodomethane	10	12	119	72- 141	
Isopropyl ether	10	9.1	91	77- 118	
p-Isopropyltoluene	10	9.9	99	74- 120	
Naphthalene	10	8.8	88	32- 141	
n-Propylbenzene	10	9.2	92	74- 121	
1,1,1,2-Tetrachloroethane	10	9.6	96	72- 116	
1,2,3-Trichlorobenzene	10	10	102	54- 126	
1,2,3-Trichloropropane	10	8.7	87	73- 129	
1,2,4-Trimethylbenzene	10	9.3	93	76- 120	
1,3,5-Trimethylbenzene	10	9.0	90	72- 118	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 80 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A1A070479

WO #: MC5JF1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	10	ND	9.0	90	74 - 135	
Chloromethane	10	ND	6.4	64	33 - 132	
2-Chlorotoluene	10	ND	8.6	86	69 - 117	
4-Chlorotoluene	10	ND	8.7	87	71 - 116	
Bromomethane	10	ND	9.4	94	10 - 186	
Vinyl chloride	10	ND	8.6	86	49 - 130	
Chloroethane	10	ND	10	104	21 - 165	
Methylene chloride	10	ND	7.9	79	63 - 128	
Acetone	20	ND	19	76	33 - 145	
Carbon disulfide	10	ND	9.5	95	57 - 147	
1,1-Dichloroethane	10	1.2	11	99	79 - 116	
1,2-Dichloroethene (total	20	ND	19	92	75 - 119	
Chloroform	10	ND	10	98	76 - 118	
1,2-Dichloroethane	10	ND	10	103	68 - 129	
2-Butanone	20	ND	21	105	54 - 129	
1,1,1-Trichloroethane	10	ND	10	101	68 - 121	
Carbon tetrachloride	10	ND	11	107	59 - 129	
Bromodichloromethane	10	ND	9.9	99	67 - 120	
1,2-Dichloropropane	10	ND	9.9	99	78 - 115	
cis-1,3-Dichloropropene	10	ND	9.0	90	51 - 110	
Trichloroethene	10	1.1	12	105	66 - 120	
Dibromochloromethane	10	ND	8.7	87	56 - 118	
1,1,2-Trichloroethane	10	ND	9.1	91	75 - 115	
Benzene	10	ND	9.8	98	72 - 121	
trans-1,3-Dichloropropene	10	ND	9.3	93	46 - 116	
Bromoform	10	ND	7.7	77	32 - 128	
4-Methyl-2-pentanone	20	ND	21	103	56 - 131	
2-Hexanone	20	ND	18	89	47 - 139	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A1A070479

WO #: MC5JF1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Tetrachloroethene	10	ND	10	97	70 - 117	
1,1,2,2-Tetrachloroethane	10	ND	8.5	85	63 - 122	
Toluene	10	ND	9.2	90	78 - 114	
Chlorobenzene	10	ND	8.9	89	80 - 110	
Ethylbenzene	10	ND	9.2	92	75 - 116	
Styrene	10	ND	9.5	95	71 - 117	
Xylenes (total)	30	ND	28	93	76 - 116	
cis-1,2-Dichloroethene	10	ND	10	97	70 - 120	
trans-1,2-Dichloroethene	10	ND	8.6	86	80 - 119	
Dichlorodifluoromethane	10	ND	7.5	66	17 - 128	
Trichlorofluoromethane	10	5.8	17	117	46 - 157	
1,1,2-Trichloro-1,2,2-tri	10	ND	13	125	70 - 152	
Methyl acetate	10	ND	8.5	85	47 - 130	
Methyl tert-butyl ether (	10	ND	8.7	87	46 - 144	
Cyclohexane	10	ND	11	114	49 - 123	
Methylcyclohexane	10	ND	12	122	49 - 127	
1,2-Dibromoethane	10	ND	9.2	92	74 - 113	
Isopropylbenzene	10	ND	9.5	95	68 - 116	
1,3-Dichlorobenzene	10	ND	8.5	85	73 - 110	
1,4-Dichlorobenzene	10	ND	8.6	86	75 - 110	
1,2-Dichlorobenzene	10	ND	8.8	88	75 - 111	
1,2-Dibromo-3-chloropropa	10	ND	9.5	95	32 - 139	
1,2,4-Trichlorobenzene	10	ND	9.5	95	38 - 138	
Methyl tert-butyl ether	10	ND	8.7	87	46 - 144	
n-Hexane	10	ND	13	134	54 - 138	
o-Xylene	10	ND	9.3	93	76 - 116	
m-Xylene & p-Xylene	20	ND	19	93	75 - 117	
2-Chloroethyl vinyl ether	10	ND	0.0	0*	10 - 150	a

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A1A070479

WO #: MC5JF1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Acetonitrile	30	ND	38	127	12 - 182	
Acrolein	30	ND	27	91	47 - 168	
Acrylonitrile	30	ND	26	88	62 - 133	
Vinyl acetate	10	ND	13	128	43 - 157	
Bromobenzene	10	ND	8.5	85	71 - 116	
Bromochloromethane	10	ND	9.6	96	73 - 121	
n-Butylbenzene	10	ND	9.8	98	56 - 127	
sec-Butylbenzene	10	ND	9.2	92	60 - 119	
tert-Butylbenzene	10	ND	9.2	92	61 - 119	
Dibromomethane	10	ND	10	105	77 - 121	
1,3-Dichloropropane	10	ND	9.0	90	74 - 118	
2,2-Dichloropropane	10	ND	9.6	96	38 - 127	
1,1-Dichloropropene	10	ND	11	109	80 - 114	
Hexachlorobutadiene	10	ND	10	103	27 - 132	
Iodomethane	10	ND	10	102	66 - 144	
Isopropyl ether	10	ND	9.0	90	73 - 118	
p-Isopropyltoluene	10	ND	9.7	97	64 - 122	
Naphthalene	10	ND	8.8	88	15 - 158	
n-Propylbenzene	10	ND	9.1	91	64 - 124	
1,1,1,2-Tetrachloroethane	10	ND	9.0	90	64 - 118	
1,2,3-Trichlorobenzene	10	ND	9.8	98	45 - 129	
1,2,3-Trichloropropane	10	ND	9.0	90	67 - 132	
1,2,4-Trimethylbenzene	10	ND	9.1	91	67 - 124	
1,3,5-Trimethylbenzene	10	ND	8.9	89	63 - 121	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 80 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A1A070479

WO #: MC5JF1AD

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
1,1-Dichloroethene	10	9.2	92	2.8	30	74 - 135	
Chloromethane	10	7.1	71	9.2	30	33 - 132	
Bromomethane	10	10	101	7.5	30	10 - 186	
Vinyl chloride	10	9.2	92	6.8	30	49 - 130	
Chloroethane	10	11	112	7.1	30	21 - 165	
Methylene chloride	10	8.8	88	10	30	63 - 128	
Acetone	20	21	84	8.3	30	33 - 145	
Carbon disulfide	10	10	101	6.2	30	57 - 147	
1,1-Dichloroethane	10	10	91	7.6	30	79 - 116	
1,2-Dichloroethene (total	20	19	92	0.30	30	75 - 119	
Chloroform	10	11	106	7.6	30	76 - 118	
1,2-Dichloroethane	10	11	110	6.9	30	68 - 129	
2-Butanone	20	22	112	6.8	30	54 - 129	
1,1,1-Trichloroethane	10	11	107	6.2	30	68 - 121	
Carbon tetrachloride	10	11	110	3.1	30	59 - 129	
Bromodichloromethane	10	10	104	4.8	30	67 - 120	
1,2-Dichloropropane	10	11	106	6.8	30	78 - 115	
cis-1,3-Dichloropropene	10	9.9	99	9.2	30	51 - 110	
Trichloroethene	10	12	106	1.4	30	66 - 120	
Dibromochloromethane	10	9.5	95	9.1	30	56 - 118	
1,1,2-Trichloroethane	10	10	100	9.6	30	75 - 115	
Benzene	10	11	106	7.4	30	72 - 121	
trans-1,3-Dichloropropene	10	9.8	98	6.1	30	46 - 116	
Bromoform	10	7.9	79	2.6	30	32 - 128	
4-Methyl-2-pentanone	20	21	107	3.9	30	56 - 131	
2-Hexanone	20	18	92	4.0	30	47 - 139	
Tetrachloroethene	10	11	104	7.1	30	70 - 117	
1,1,2,2-Tetrachloroethane	10	8.9	89	3.7	30	63 - 122	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A1A070479

WO #: MC5JF1AD

BATCH: 1010112

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
Toluene	10	10	101	11	30	78 - 114	
Chlorobenzene	10	9.8	98	9.1	30	80 - 110	
Ethylbenzene	10	10	102	10	30	75 - 116	
Styrene	10	10	104	9.6	30	71 - 117	
Xylenes (total)	30	31	104	11	30	76 - 116	
cis-1,2-Dichloroethene	10	9.8	94	3.4	30	70 - 120	
trans-1,2-Dichloroethene	10	9.0	90	4.5	30	80 - 119	
Dichlorodifluoromethane	10	6.6	58	12	30	17 - 128	
Trichlorofluoromethane	10	17	108	5.5	30	46 - 157	
1,1,2-Trichloro-1,2,2-tri	10	12	116	7.0	30	70 - 152	
Methyl acetate	10	8.9	89	5.1	30	47 - 130	
Methyl tert-butyl ether (	10	9.4	94	7.9	30	46 - 144	
Cyclohexane	10	11	110	4.2	30	49 - 123	
Methylcyclohexane	10	11	111	9.7	30	49 - 127	
1,2-Dibromoethane	10	9.7	97	6.0	30	74 - 113	
Isopropylbenzene	10	11	106	11	30	68 - 116	
1,3-Dichlorobenzene	10	9.4	94	9.4	30	73 - 110	
1,4-Dichlorobenzene	10	9.2	92	7.4	30	75 - 110	
1,2-Dichlorobenzene	10	9.7	97	11	30	75 - 111	
1,2-Dibromo-3-chloropropa	10	10	102	7.2	30	32 - 139	
1,2,4-Trichlorobenzene	10	11	114	17	30	38 - 138	
Methyl tert-butyl ether	10	9.4	94	7.9	30	46 - 144	
n-Hexane	10	10	102	27	30	54 - 138	
o-Xylene	10	11	106	14	30	76 - 116	
m-Xylene & p-Xylene	20	21	104	10	30	75 - 117	
2-Chloroethyl vinyl ether	10	8.9	89	200	30	10 - 150	p
Acetonitrile	30	40	132	4.5	30	12 - 182	
Acrolein	30	27	91	0.98	30	47 - 168	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A1A070479

WO #: MC5JF1AD

BATCH: 1010112

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Acrylonitrile	30	26	88	0.010	30	62- 133	
Vinyl acetate	10	12	118	8.6	30	43- 157	
Bromobenzene	10	8.9	89	4.8	30	71- 116	
Bromochloromethane	10	10	105	9.1	30	73- 121	
n-Butylbenzene	10	10	104	6.8	30	56- 127	
sec-Butylbenzene	10	9.8	98	6.4	30	60- 119	
tert-Butylbenzene	10	9.7	97	5.6	30	61- 119	
2-Chlorotoluene	10	9.1	91	5.9	30	69- 117	
4-Chlorotoluene	10	9.1	91	5.2	30	71- 116	
Dibromomethane	10	11	109	4.5	30	77- 121	
1,3-Dichloropropane	10	9.7	97	7.9	30	74- 118	
2,2-Dichloropropane	10	10	104	7.9	30	38- 127	
1,1-Dichloropropene	10	11	109	0.50	30	80- 114	
Hexachlorobutadiene	10	11	107	4.3	30	27- 132	
Iodomethane	10	12	116	13	30	66- 144	
Isopropyl ether	10	8.5	85	4.9	30	73- 118	
p-Isopropyltoluene	10	11	105	8.6	30	64- 122	
Naphthalene	10	10	100	13	30	15- 158	
n-Propylbenzene	10	9.5	95	4.9	30	64- 124	
1,1,1,2-Tetrachloroethane	10	10	101	12	30	64- 118	
1,2,3-Trichlorobenzene	10	11	115	16	30	45- 129	
1,2,3-Trichloropropane	10	9.0	90	0.30	30	67- 132	
1,2,4-Trimethylbenzene	10	10	101	9.9	30	67- 124	
1,3,5-Trimethylbenzene	10	9.7	97	8.6	30	63- 121	

NOTES (S) :

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 80 outside limits
Spike Recovery: 0 out of 80 outside limits

COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

MC6XD1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: UXX7995.D

Lot Number: A1A060436

Date Analyzed: 01/10/11

Time Analyzed: 10:56

Matrix: WATER

Date Extracted: 01/10/11

GC Column: DB 624 ID: .18

Extraction Method: 5030B

Instrument ID: UX10

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
=====	=====	=====	=====	=====
01 MW-108BH@195(20110105)	MC3QN1AA	UXX8000.D	01/10/11	12:43
02 TB-20110105	MC3QT1AA	UXX7997.D	01/10/11	11:38
03 INTRA-LAB QC	MC5JF1AA	UXX7998.D	01/10/11	12:00
04 LAB MS/MSD	MC5JF1AC S	UXX8003.D	01/10/11	13:47
05 LAB MS/MSD	MC5JF1AD D	UXX8004.D	01/10/11	14:09
06 CHECK SAMPLE	MC6XD1AC C	UXX7994.D	01/10/11	10:34
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: TEST AMERICA - NORTH CANT Contract:

Lab Code: TACANTON Case No.: SAS No.: SDG No.: A1A060436V

Lab File ID: BFB3928 BFB Injection Date: 11/14/10

Instrument ID: A3UX10 BFB Injection Time: 1617

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	48.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	95.0
175	5.0 - 9.0% of mass 174	6.7 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	92.9 (97.8)1
177	5.0 - 9.0% of mass 176	6.0 (6.5)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-A9IC	UXX6200	11/14/10	1917
02	VSTD020	100NG-A9IC	UXX6201	11/14/10	1938
03	VSTD010	50NG-A9IC	UXX6202	11/14/10	1959
04	VSTD005	25NG-A9IC	UXX6203	11/14/10	2021
05	VSTD002	10NG-A9IC	UXX6204	11/14/10	2042
06	VSTD001	5NG-A9IC	UXX6205	11/14/10	2103
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: TEST AMERICA - NORTH CANT Contract:

Lab Code: TACANTON Case No.: SAS No.: SDG No.: A1A060436V

Lab File ID: BFB3989 BFB Injection Date: 12/29/10

Instrument ID: A3UX10 BFB Injection Time: 0910

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 100.0% of mass 95	95.0
175	5.0 - 9.0% of mass 174	6.8 (7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	92.5 (97.4)1
177	5.0 - 9.0% of mass 176	6.2 (6.7)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-IC	UXX7801	12/29/10	0933
02	VSTD020	100NG-IC	UXX7802	12/29/10	0955
03	VSTD010	50NG-IC	UXX7803	12/29/10	1017
04	VSTD005	25NG-IC	UXX7804	12/29/10	1038
05	VSTD002	10NG-IC	UXX7805	12/29/10	1059
06	VSTD001	5NG-IC	UXX7806	12/29/10	1120
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: TEST AMERICA - NORTH CANT Contract:

Lab Code: TACANTON Case No.: SAS No.: SDG No.: A1A060436V

Lab File ID: BFB3997 BFB Injection Date: 01/10/11

Instrument ID: A3UX10 BFB Injection Time: 0925

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 100.0% of mass 95	91.7
175	5.0 - 9.0% of mass 174	6.7 (7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.0 (99.2)1
177	5.0 - 9.0% of mass 176	6.1 (6.7)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UXX7992	01/10/11	0951
02	VSTD010	50NG-A9CC	UXX7993	01/10/11	1013
03	MC6XDCHK	MC6XD1AC	UXX7994	01/10/11	1034
04	MC6XDBLK	MC6XD1AA	UXX7995	01/10/11	1056
05	TB-20110105	MC3QT1AA	UXX7997	01/10/11	1138
06	MW-108BH@195	MC3QN1AA	UXX8000	01/10/11	1243
07					
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12					
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15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: TEST AMERICA - NORTH CANT Contract:

Lab Code: TACANTON Case No.: SAS No.: SDG No.: A1A060436V

Lab File ID (Standard): UXX7992 Date Analyzed: 01/10/11

Instrument ID: A3UX10 Time Analyzed: 0951

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	1370072	5.11	1084996	7.79	659942	10.04
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	2740144	5.61	2169992	8.29	1319884	10.54
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	685036	4.61	542498	7.29	329971	9.54
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 MC6XDCHK	1162967	5.11	1040159	7.79	657706	10.04
02 MC6XDBLK	1257690	5.11	920947	7.79	551091	10.04
03 TB-20110105	1175375	5.12	885551	7.79	542829	10.04
04 MW-108BH@195	1273253	5.11	947450	7.79	557708	10.04
05						
06						
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09						
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11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk.

SAMPLE DATA

TRW Automotive

Client Sample ID: MW-108BH@195(20110105)

GC/MS Volatiles

Lot-Sample #...: A1A060436-001 Work Order #...: MC3QN1AA Matrix.....: WG
 Date Sampled...: 01/05/11 08:30 Date Received...: 01/06/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	26	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108BH@195(20110105)

GC/MS Volatiles

Lot-Sample #...: A1A060436-001 Work Order #...: MC3QN1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	4.7	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	100	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8000.D
 Report Date: 10-Jan-2011 13:20

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8000.D
 Lab Smp Id: MC3QN1AA Client Smp ID: MW-108BH@195(201101
 Inj Date : 10-JAN-2011 12:43
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info : MC3QN1AA,5ML/5ML
 Misc Info : P10110A,8260LLUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS					(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Fluorobenzene	96	5.113	5.113 (1.000)		1273253	50.0000		
* 2 Chlorobenzene-d5	117	7.787	7.787 (1.000)		947450	50.0000		
* 3 1,4-Dichlorobenzene-d4	152	10.035	10.036 (1.000)		557708	50.0000		
\$ 4 Dibromofluoromethane	113	4.533	4.533 (0.887)		251695	50.1051	10.021	
\$ 5 1,2-Dichloroethane-d4	65	4.829	4.817 (0.944)		291753	49.6190	9.924	
\$ 6 Toluene-d8	98	6.473	6.474 (0.831)		957297	46.1865	9.237	
\$ 7 Bromofluorobenzene	95	8.899	8.900 (1.143)		319079	43.8496	8.770	
8 Dichlorodifluoromethane	85	1.492	1.492 (0.292)		21229	4.73079	0.9462	
9 Chloromethane	50	Compound Not Detected.						
10 Vinyl Chloride	62	Compound Not Detected.						
11 Bromomethane	94	Compound Not Detected.						
12 Chloroethane	64	Compound Not Detected.						
13 Trichlorofluoromethane	101	2.296	2.297 (0.449)		116466	23.7324	4.746	
15 Acrolein	56	Compound Not Detected.						
16 Acetone	43	2.734	2.735 (0.535)		86776	55.1559	11.031	
17 1,1-Dichloroethene	96	Compound Not Detected.						
18 Freon-113	151	Compound Not Detected.						
19 Iodomethane	142	Compound Not Detected.						
20 Carbon Disulfide	76	2.912	2.912 (0.570)		73590	4.87277	0.9746	
21 Methylene Chloride	84	Compound Not Detected.						

22 Acetonitrile	41	Compound Not Detected.
23 Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8000.D
 Report Date: 10-Jan-2011 13:20

						CONCENTRATIONS			
		QUANT	SIG				ON-COLUMN	FINAL	
Compounds	MASS	RT	EXP	RT	REL	RT	RESPONSE	(ng)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	Compound	Not	Detected.					
25 trans-1,2-Dichloroethene	96	Compound	Not	Detected.					
26 Hexane	86	Compound	Not	Detected.					
27 Vinyl acetate	43	Compound	Not	Detected.					
28 1,1-Dichloroethane	63	3.681	3.681	(0.720)			40485	4.08856	0.8177
29 tert-Butyl Alcohol	59	Compound	Not	Detected.					
30 2-Butanone	43	4.154	4.143	(0.813)			7986	4.08255	0.8165
M 31 1,2-Dichloroethene (total)	96	Compound	Not	Detected.					
32 cis-1,2-dichloroethene	96	Compound	Not	Detected.					
33 2,2-Dichloropropane	77	Compound	Not	Detected.					
34 Bromochloromethane	128	Compound	Not	Detected.					
35 Chloroform	83	Compound	Not	Detected.					
36 Tetrahydrofuran	42	Compound	Not	Detected.					
37 1,1,1-Trichloroethane	97	Compound	Not	Detected.					
38 1,1-Dichloropropene	75	Compound	Not	Detected.					
39 Carbon Tetrachloride	117	Compound	Not	Detected.					
40 1,2-Dichloroethane	62	Compound	Not	Detected.					
41 Benzene	78	Compound	Not	Detected.					
42 Trichloroethene	130	5.432	5.433	(1.062)			21775	3.61973	0.7239
43 1,2-Dichloropropane	63	Compound	Not	Detected.					
44 1,4-Dioxane	88	Compound	Not	Detected.					
45 Dibromomethane	93	Compound	Not	Detected.					
46 Bromodichloromethane	83	Compound	Not	Detected.					
47 2-Chloroethyl vinyl ether	63	Compound	Not	Detected.					
48 cis-1,3-Dichloropropene	75	Compound	Not	Detected.					
49 4-Methyl-2-pentanone	43	Compound	Not	Detected.					
50 Toluene	91	6.533	6.533	(0.839)			105094	4.27678	0.8554
51 trans-1,3-Dichloropropene	75	Compound	Not	Detected.					
52 Ethyl Methacrylate	69	Compound	Not	Detected.					
53 1,1,2-Trichloroethane	97	Compound	Not	Detected.					
54 1,3-Dichloropropane	76	Compound	Not	Detected.					
55 Tetrachloroethene	164	7.041	7.042	(0.904)			12383	2.46866	0.4937
56 2-Hexanone	43	Compound	Not	Detected.					
57 Dibromochloromethane	129	Compound	Not	Detected.					
58 1,2-Dibromoethane	107	Compound	Not	Detected.					
59 Chlorobenzene	112	Compound	Not	Detected.					
60 1,1,1,2-Tetrachloroethane	131	Compound	Not	Detected.					
61 Ethylbenzene	106	7.917	7.918	(1.017)			11339	1.35611	0.2712
62 m + p-Xylene	106	8.023	8.024	(1.030)			17997	1.70594	0.3412
M 63 Xylenes (total)	106						17997	1.70594	0.3412
64 Xylene-o	106	Compound	Not	Detected.					
65 Styrene	104	Compound	Not	Detected.					
66 Bromoform	173	Compound	Not	Detected.					
67 Isopropylbenzene	105	Compound	Not	Detected.					
68 1,1,2,2-Tetrachloroethane	83	Compound	Not	Detected.					
69 1,4-Dichloro-2-butene	53	Compound	Not	Detected.					
70 1,2,3-Trichloropropane	110	Compound	Not	Detected.					
71 Bromobenzene	156	Compound	Not	Detected.					
72 n-Propylbenzene	120	Compound	Not	Detected.					
73 2-Chlorotoluene	126	Compound	Not	Detected.					
74 1,3,5-Trimethylbenzene	105	Compound	Not	Detected.					
75 4-Chlorotoluene	126	Compound	Not	Detected.					

76 tert-Butylbenzene	119	Compound Not Detected.				
77 1,2,4-Trimethylbenzene	105	9.692	9.692 (0.966)	28206	1.24350	0.2487
78 sec-Butylbenzene	105	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\A3UX10.I\PI0110A.B\UXX8000.D
 Report Date: 10-Jan-2011 13:20

Compounds	QUANT SIG							CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL		
	MASS					(ng)	(ug/L)		
=====	=====	=====	=====	=====	=====	=====	=====		
79 4-Isopropyltoluene	119				Compound Not Detected.				
80 1,3-Dichlorobenzene	146				Compound Not Detected.				
81 1,4-Dichlorobenzene	146				Compound Not Detected.				
82 n-Butylbenzene	91				Compound Not Detected.				
83 1,2-Dichlorobenzene	146				Compound Not Detected.				
84 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.				
85 1,2,4-Trichlorobenzene	180				Compound Not Detected.				
86 Hexachlorobutadiene	225				Compound Not Detected.				
87 Naphthalene	128	12.283	12.284	(1.224)	7025	2.96279	0.5926		
88 1,2,3-Trichlorobenzene	180				Compound Not Detected.				
14 Dichlorofluoromethane	67	2.237	2.238	(0.438)	1212610	129.762	25.952		
89 Ethyl Ether	59				Compound Not Detected.				
91 3-Chloropropene	76				Compound Not Detected.				
92 Isopropyl Ether	87				Compound Not Detected.				
93 2-Chloro-1,3-butadiene	53				Compound Not Detected.				
94 Propionitrile	54				Compound Not Detected.				
95 Ethyl Acetate	43				Compound Not Detected.				
96 Methacrylonitrile	41				Compound Not Detected.				
97 Isobutanol	41				Compound Not Detected.				
99 n-Butanol	56				Compound Not Detected.				
100 Methyl Methacrylate	41				Compound Not Detected.				
101 2-Nitropropane	41				Compound Not Detected.				
103 Cyclohexanone	55				Compound Not Detected.				
98 Cyclohexane	56	4.651	4.652	(0.910)	11384	1.36293	0.2726		
143 Methyl Acetate	43				Compound Not Detected.				
144 Methylcyclohexane	83				Compound Not Detected.				
141 1,3,5-Trichlorobenzene	180				Compound Not Detected.				
146 2-Methylnaphthalene	142				Compound Not Detected.				
149 Vinyl Acetate-86	86				Compound Not Detected.				
153 t-Butyl ethyl ether	59				Compound Not Detected.				
154 t-Amyl methyl ether	73				Compound Not Detected.				
155 1,2,3-Trimethylbenzene	105	10.106	10.106	(1.007)	16246	0.79847	0.1597(a)		

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX8000.D
 Report Date: 10-Jan-2011 13:20

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i	Calibration Date: 10-JAN-2011
Lab File ID: UXX8000.D	Calibration Time: 09:51
Lab Smp Id: MC3QN1AA	Client Smp ID: MW-108BH@195(201101
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: 1904	
Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m	
Misc Info: P10110A,8260LLUX10,,1904	

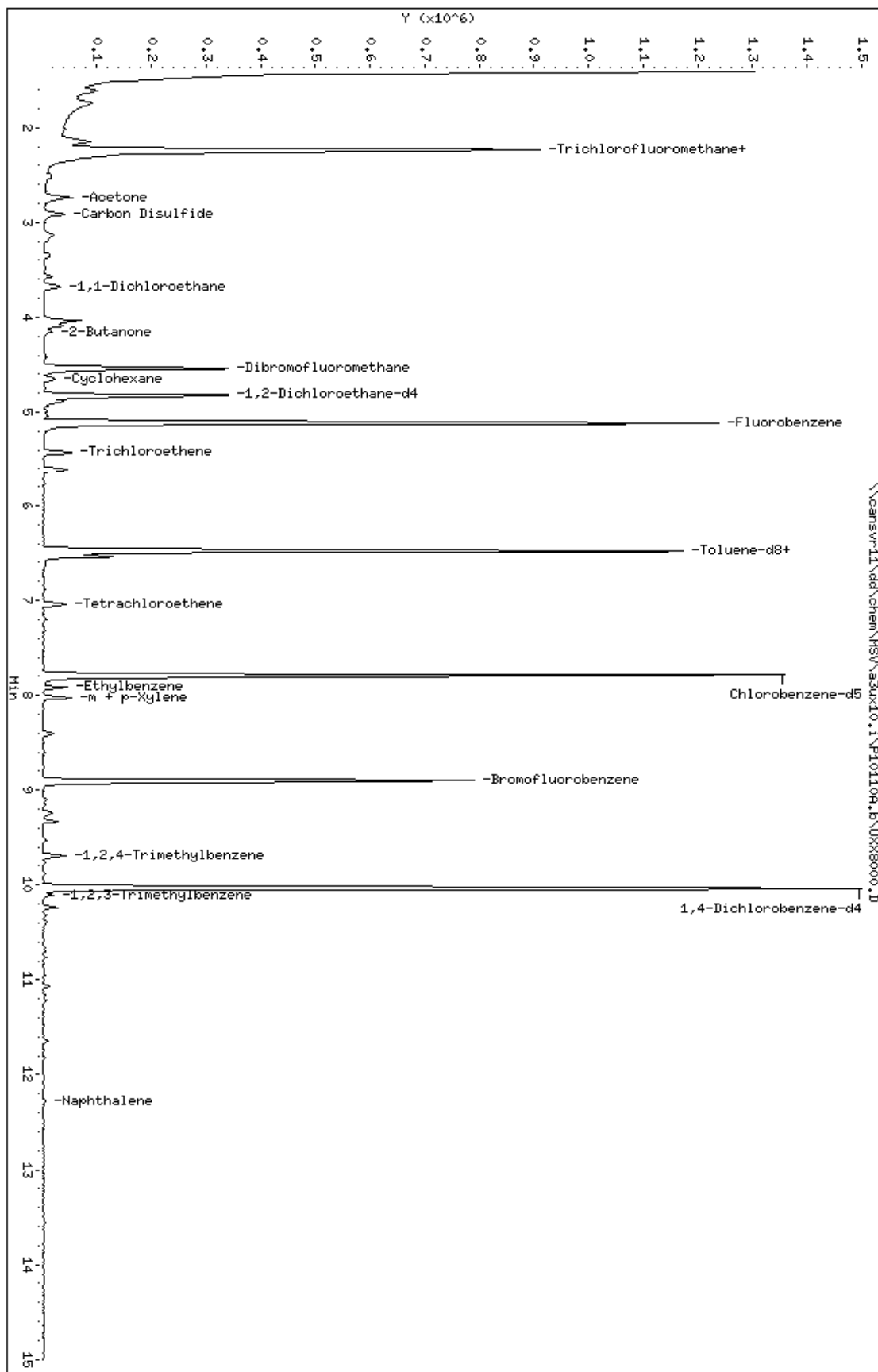
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1273253	-7.07
2 Chlorobenzene-d5	1084996	542498	2169992	947450	-12.68
3 1,4-Dichlorobenze	659942	329971	1319884	557708	-15.49

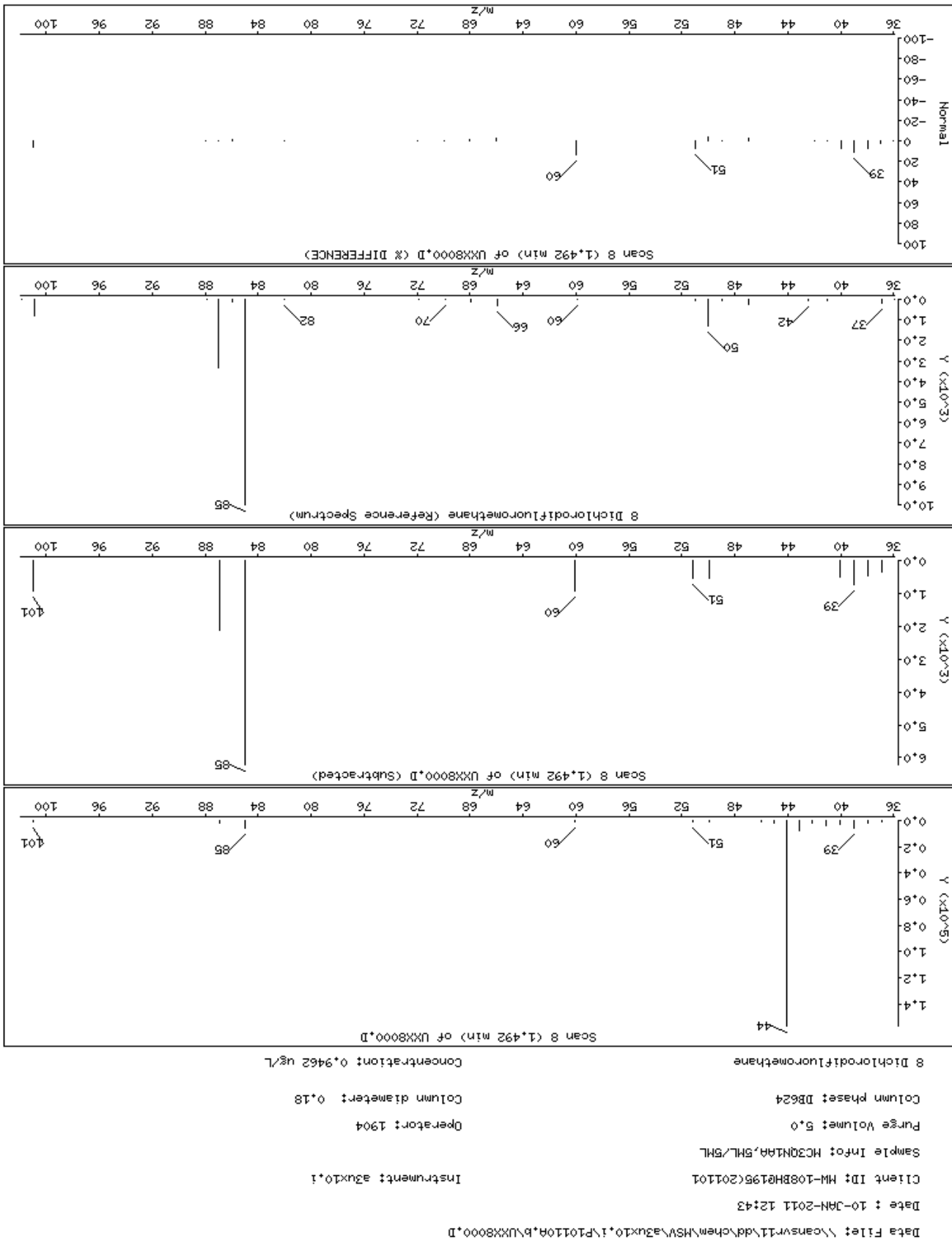
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.01
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

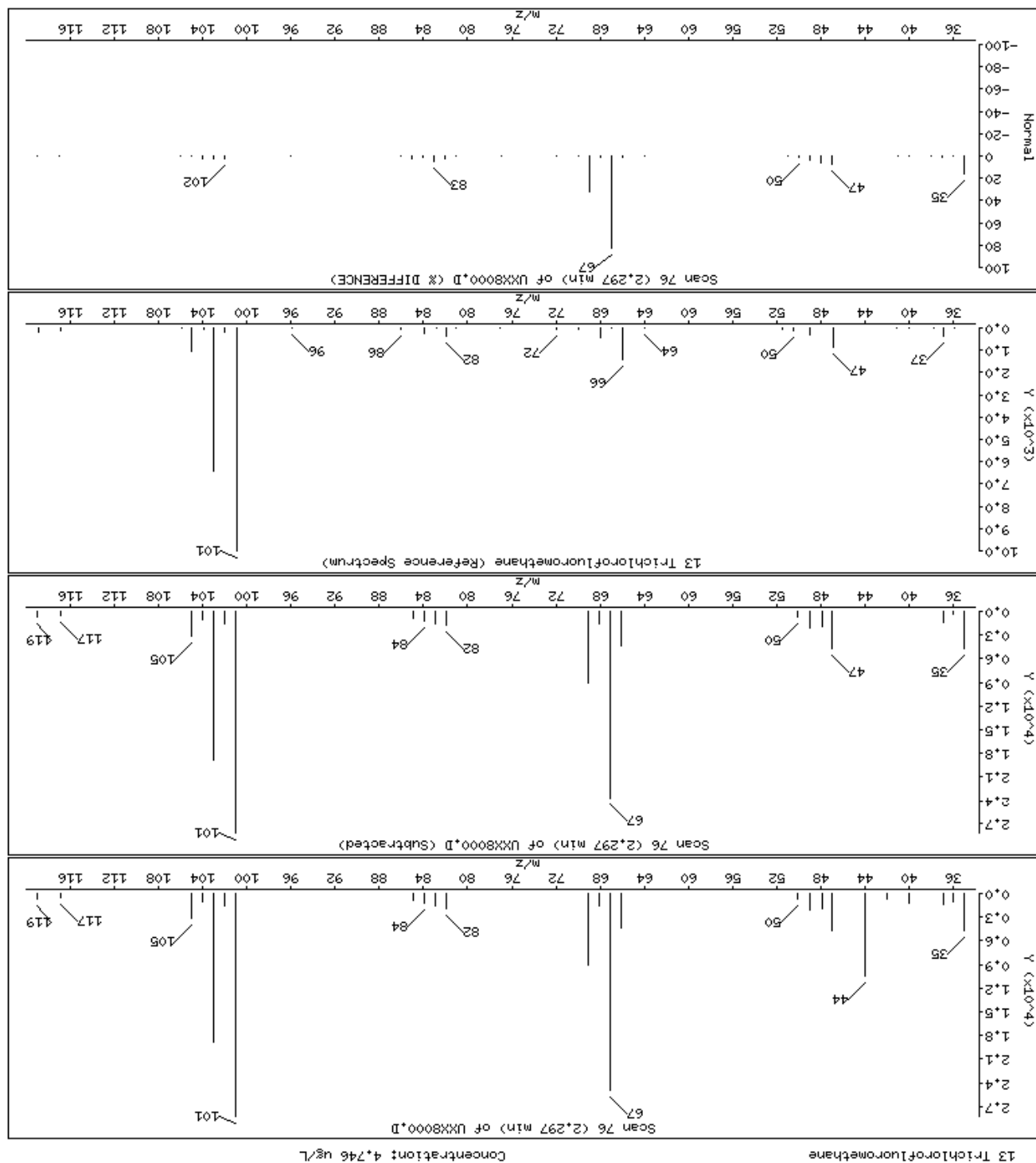
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

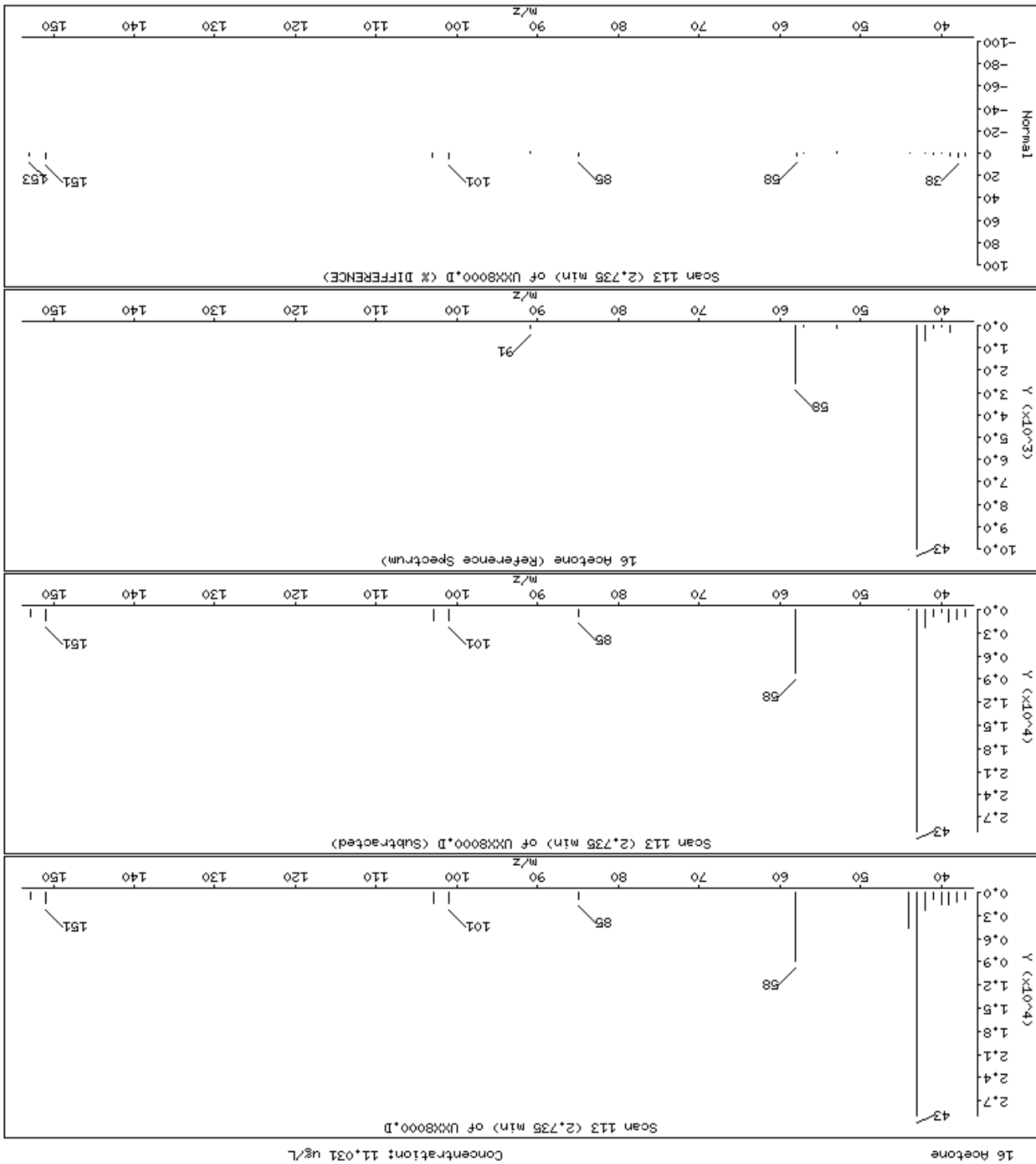
Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101109.b\UX8000.D
 Date: 10-JAN-2011 12:43
 Client ID: MW-108BH496(201101
 Sample Info: HC3QH496,SHL/SHL
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18



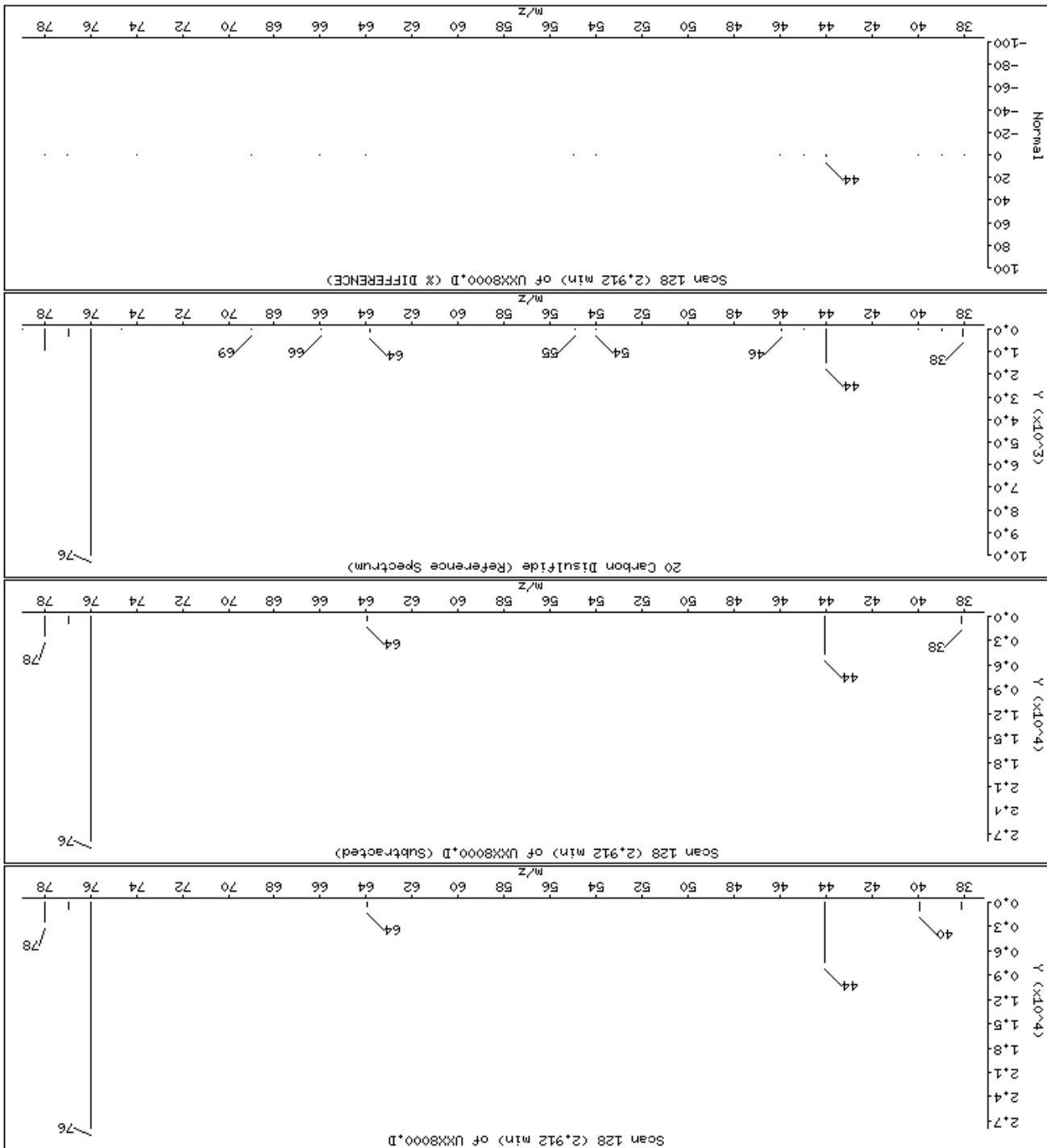




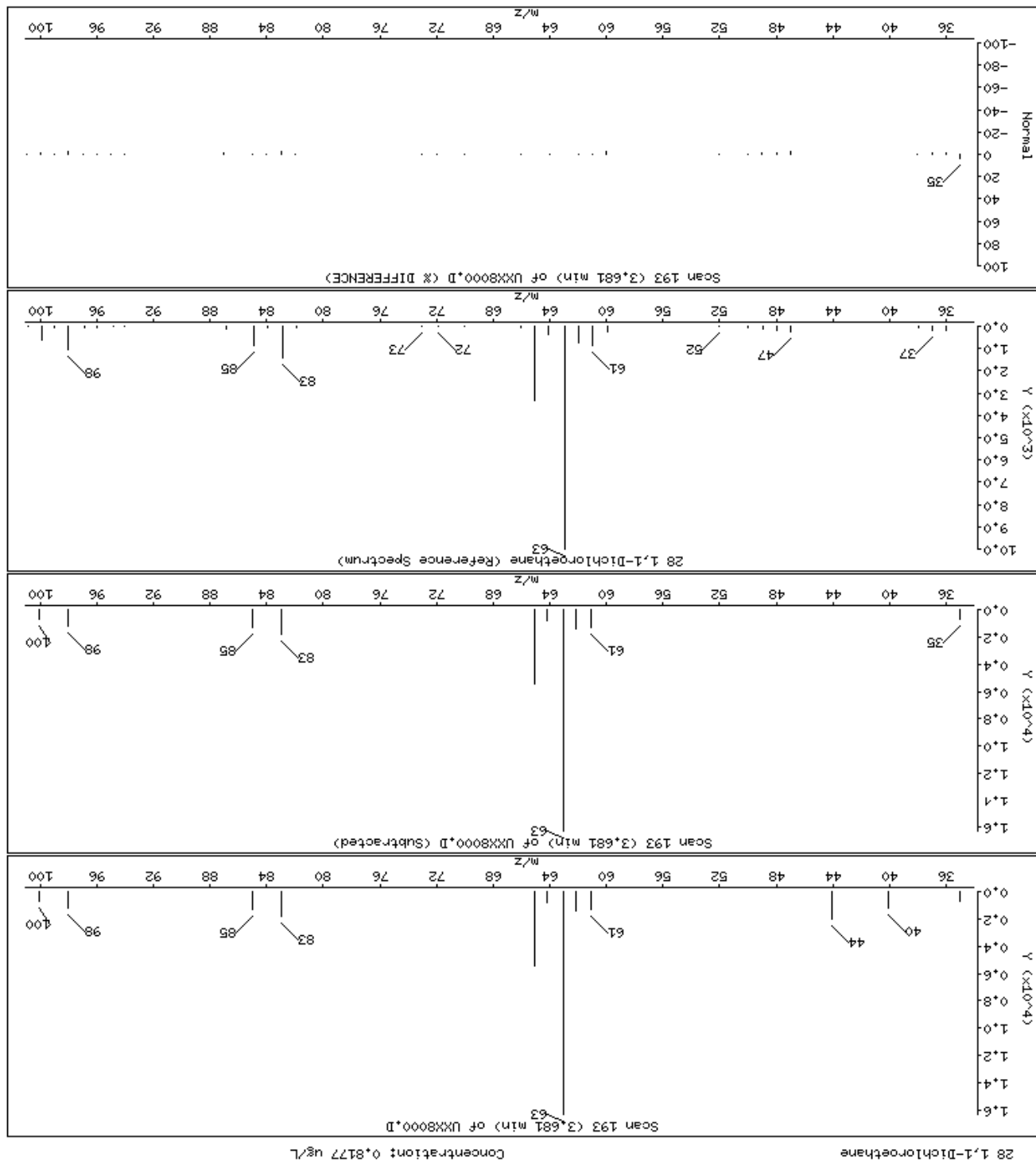


16 Acetone
Concentration: 11.031 ug/L
Operator: 1904
Column phase: DB624
Purge Volume: 5.0
Sample Info: HC3QNTAA,BHL/BHL
Client ID: HM-108BH0195(201101
Date : 10-JAN-2011 12:43
Instrument: 83ux10.i

Data File: \\cansvr11\dd\chem\MSV\83ux10.i\P10110A,B\UXK8000.D

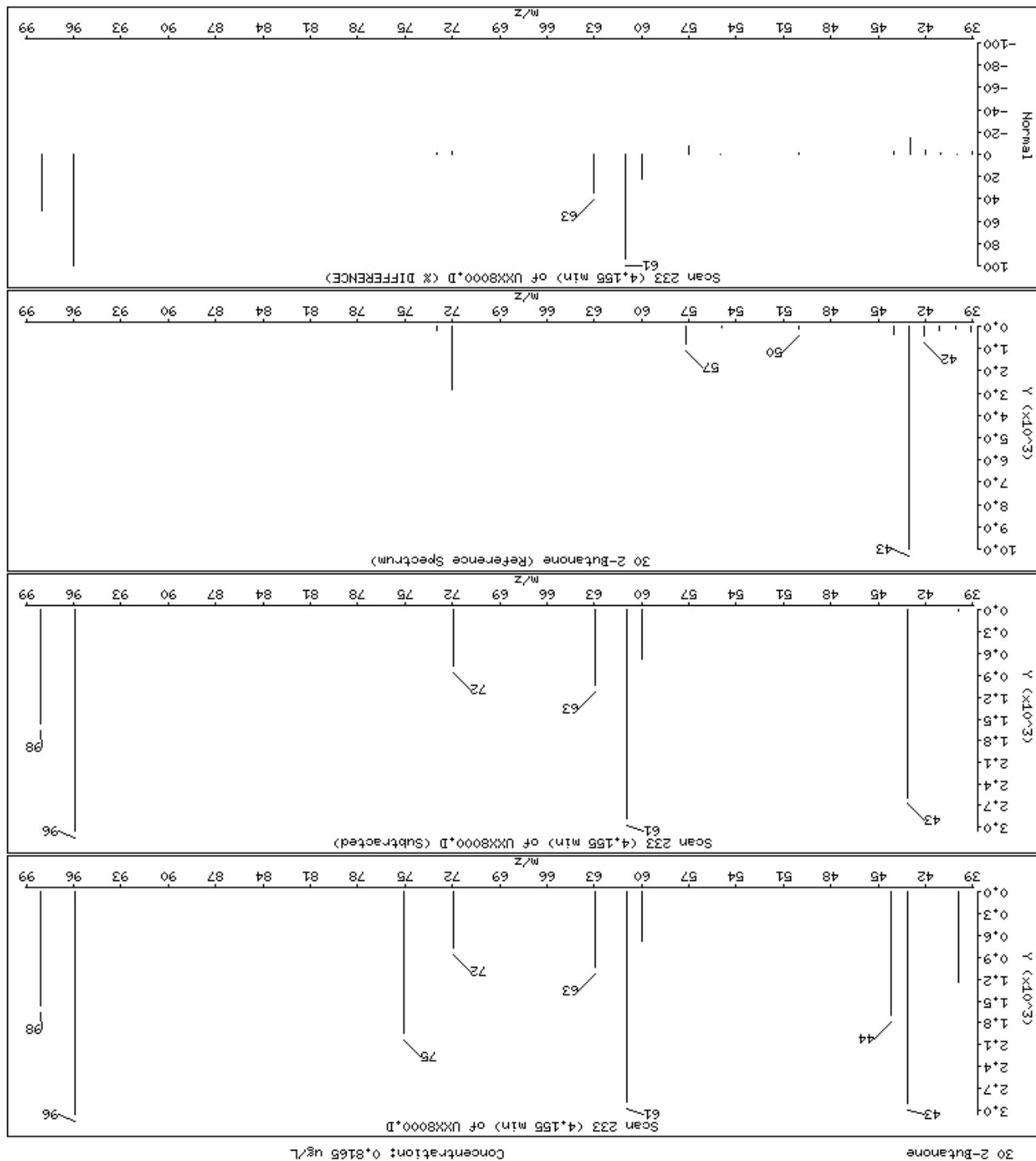


20 Carbon Disulfide
Concentration: 0.9746 ug/L
Column phase: DB624
Purge Volume: 5.0
Operator: 1904
Sample Info: HC3QNTAA,BHL/BHL
Client ID: HM-108BH0195(201101
Instrument: 33x10.1
Date : 10-JAN-2011 12:43
Data File: \\cansvr11\dd\chem\MSV\33x10.1\P10110A,B\UXK8000.D

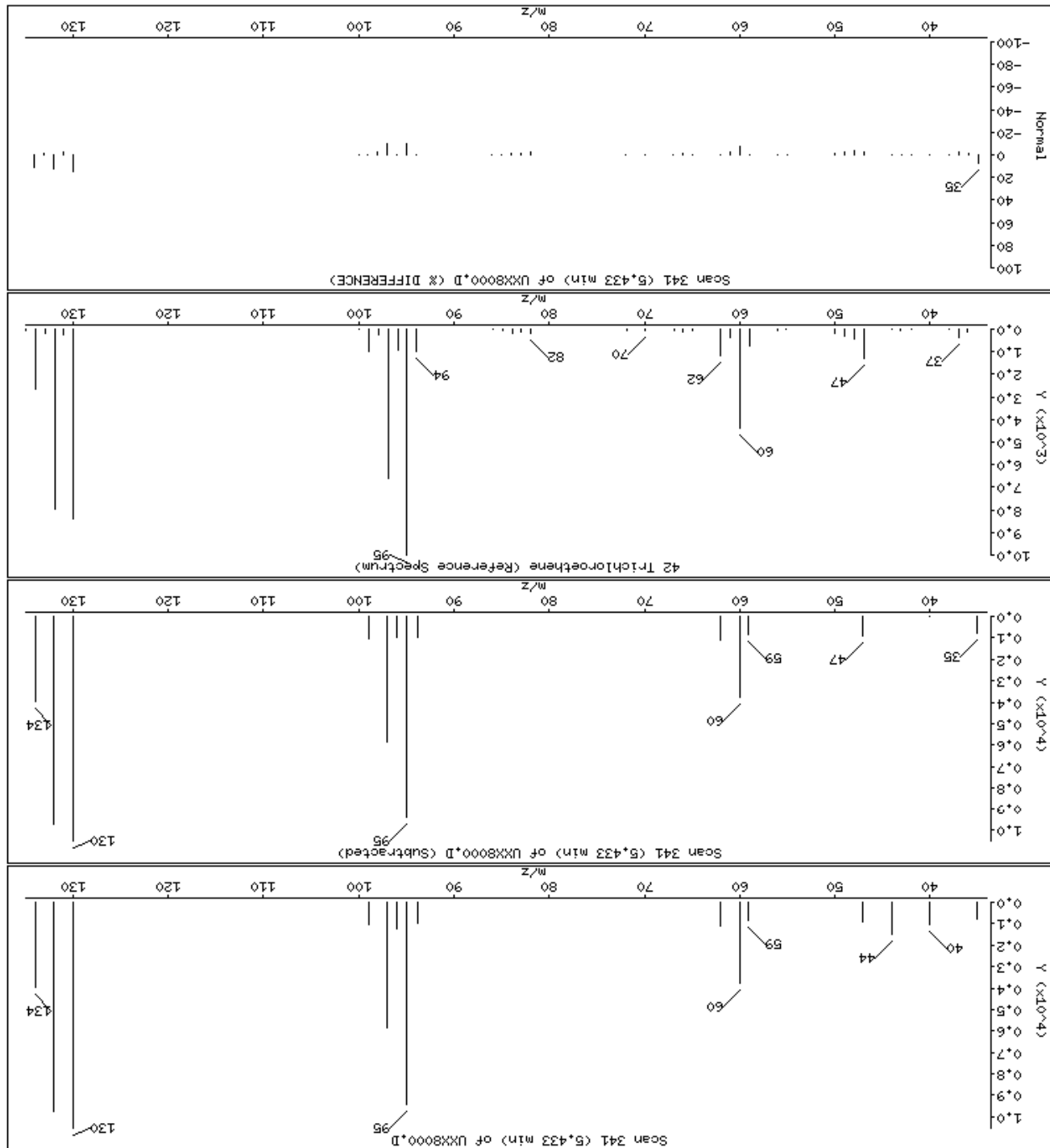


28 1,1-Dichloroethane
Concentration: 0.8177 ug/L
Column phase: DB624
Column diameter: 0.18
Operator: 1904
Instrument: 330x10.1
Client ID: HM-108BH0195(201101
Sample Info: HC30N1A4,BHL/BHL
Purge Volume: 5.0
Date: 10-JAN-2011 12:43

Data File: \\cansvr11\dd\chem\MSV\330x10.1\P10110A,B\UXK8000.D



30 2-Butanone
Concentration: 0.8165 ug/L
Data File: \\cansvr11\dd\chem\MSV\33x10\1\P10110A.B\UXX8000.D
Date: 10-JAN-2011 12:43
Client ID: HM-108BH0195(201101
Sample Info: HC30N1A4,BHL/BHL
Purge Volume: 5.0
Operator: 1904
Column diameter: 0.18
Column phase: DB624



42 Trichloroethene Concentration: 0.7239 ug/L

Column phase: DB624 Column diameter: 0.18

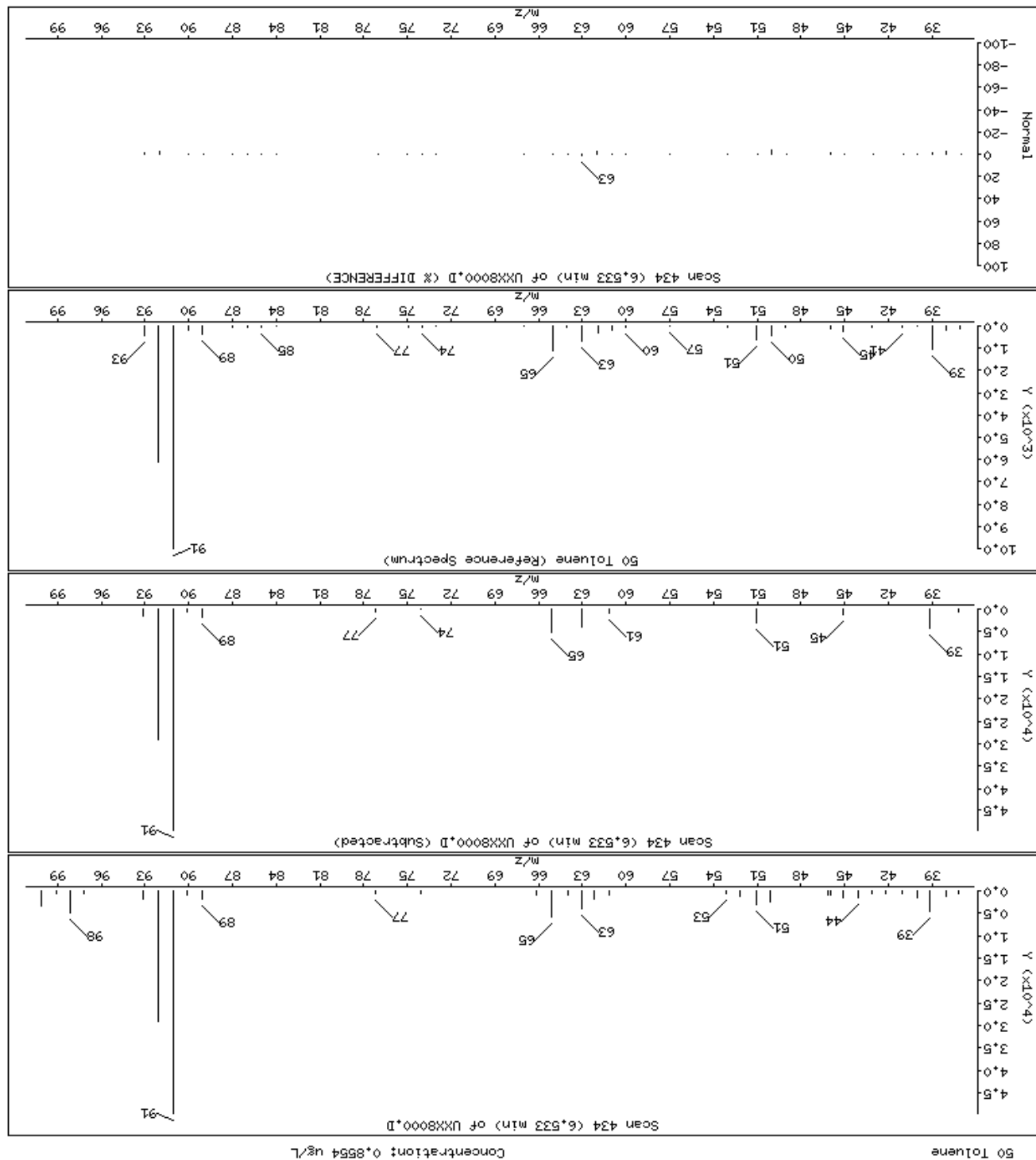
Operator: 1904

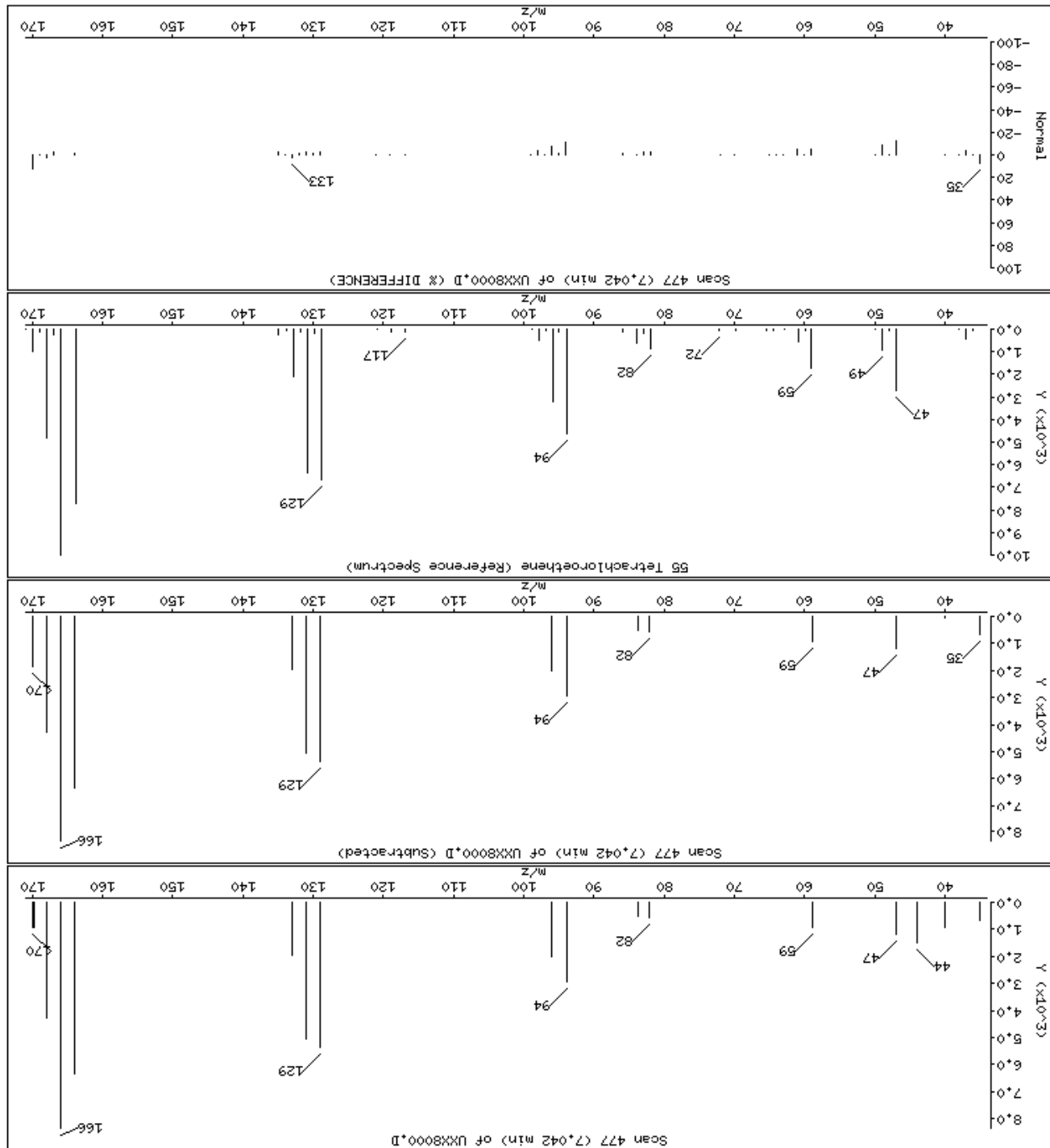
Instrument: 330x10.1

Client ID: HM-108BH0195(201101

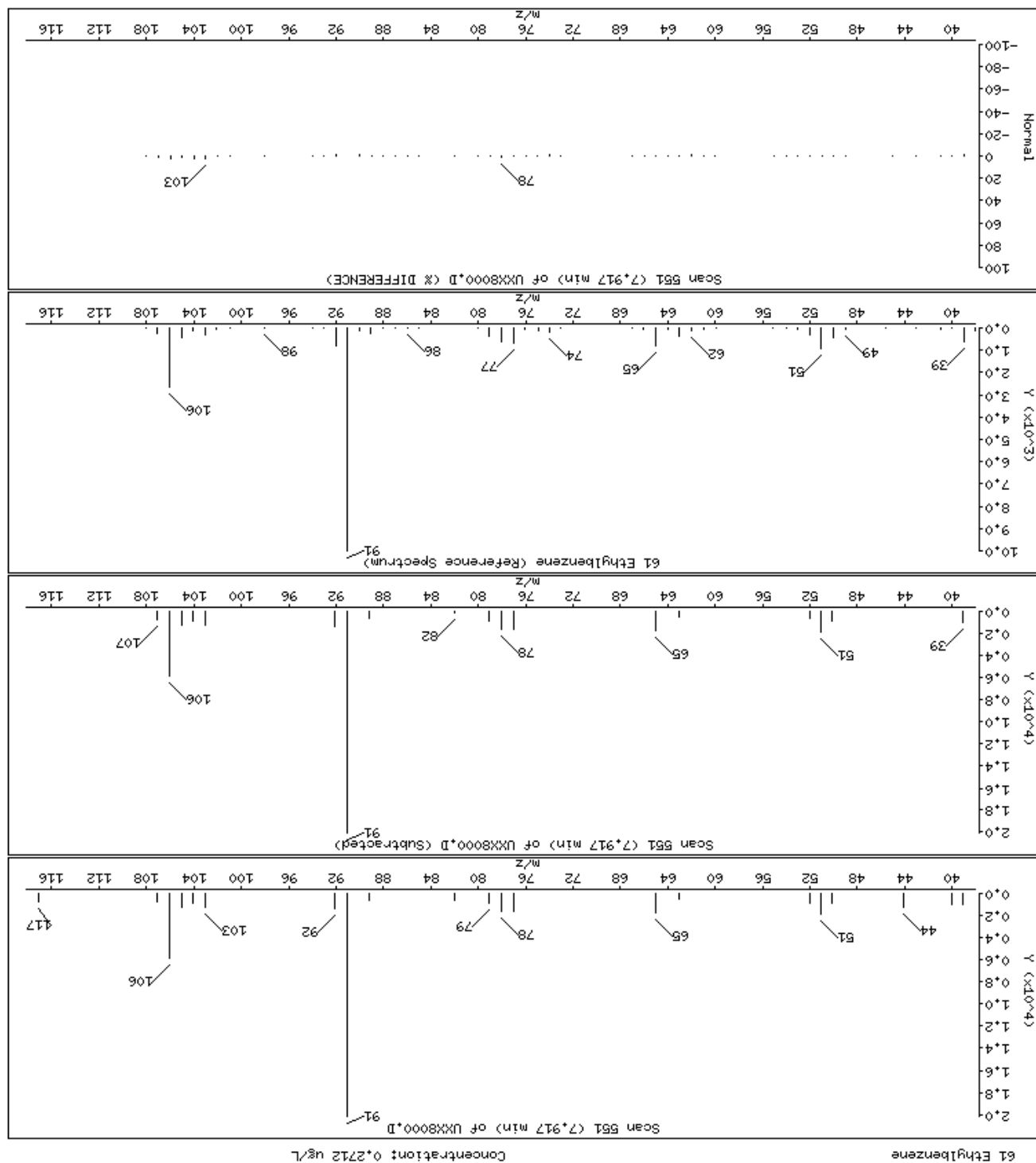
Date: 10-JAN-2011 12:43

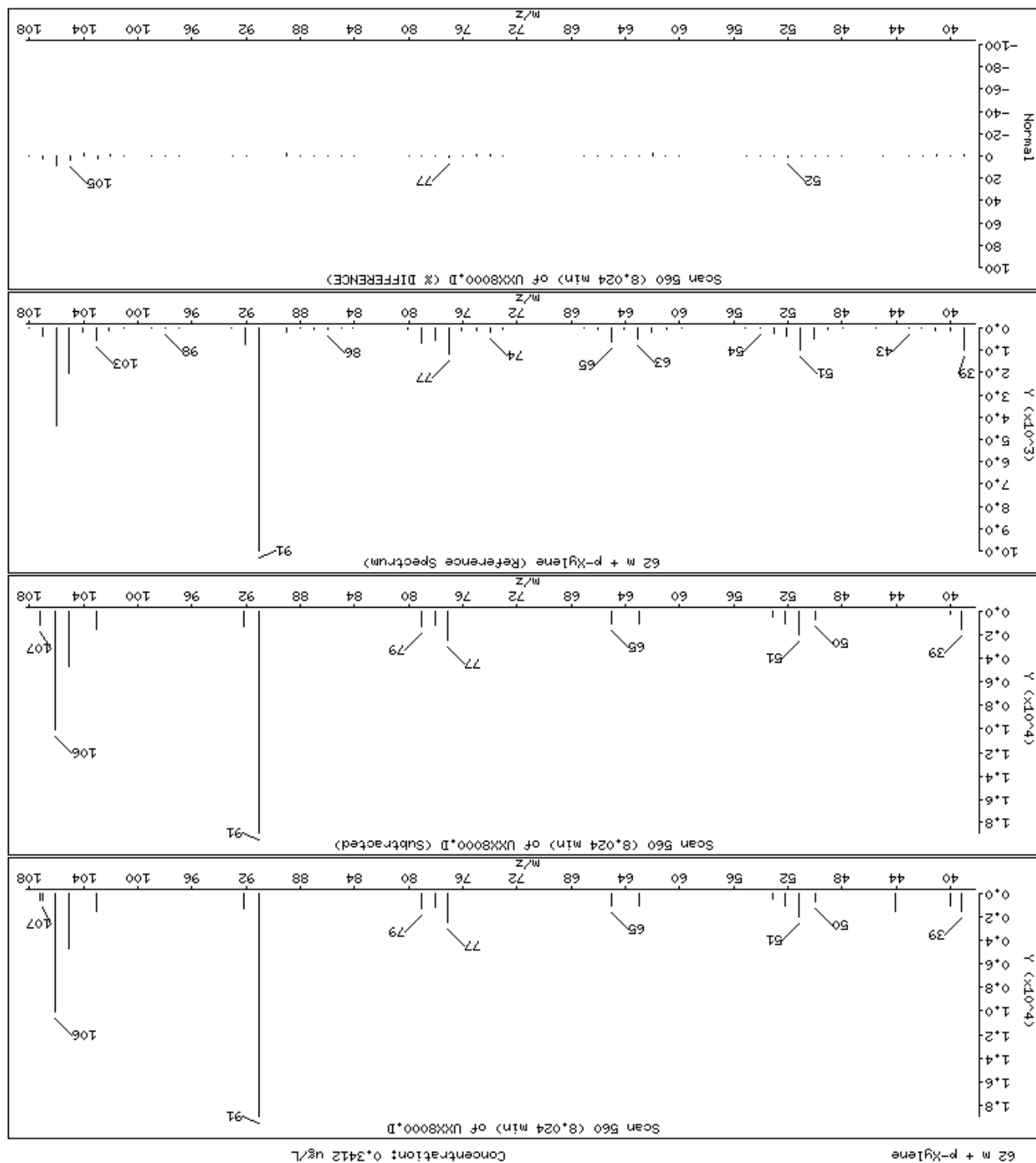
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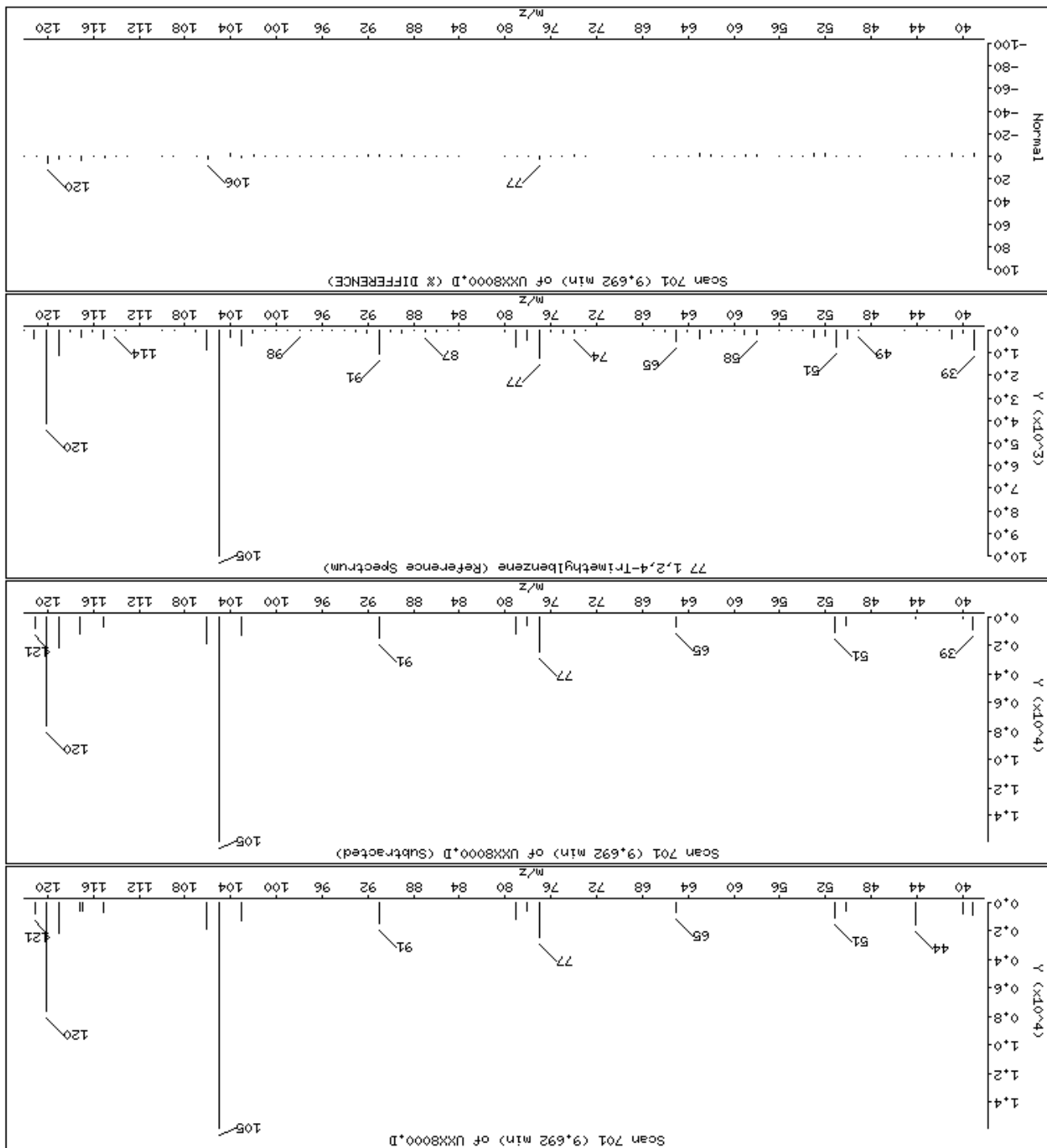




55 Tetrachloroethene
Concentration: 0.4937 ug/L
Column phase: DB624
Purge Volume: 5.0
Operator: 1904
Sample Info: HC3QNTAA,BHL/BHL
Client ID: HM-108BH0195(201101
Date: 10-JAN-2011 12:43
Data File: \\cansvr11\dd\chem\MSV\3kx10\1\P10110A,B\UXK8000.D
Instrument: 3kx10.1

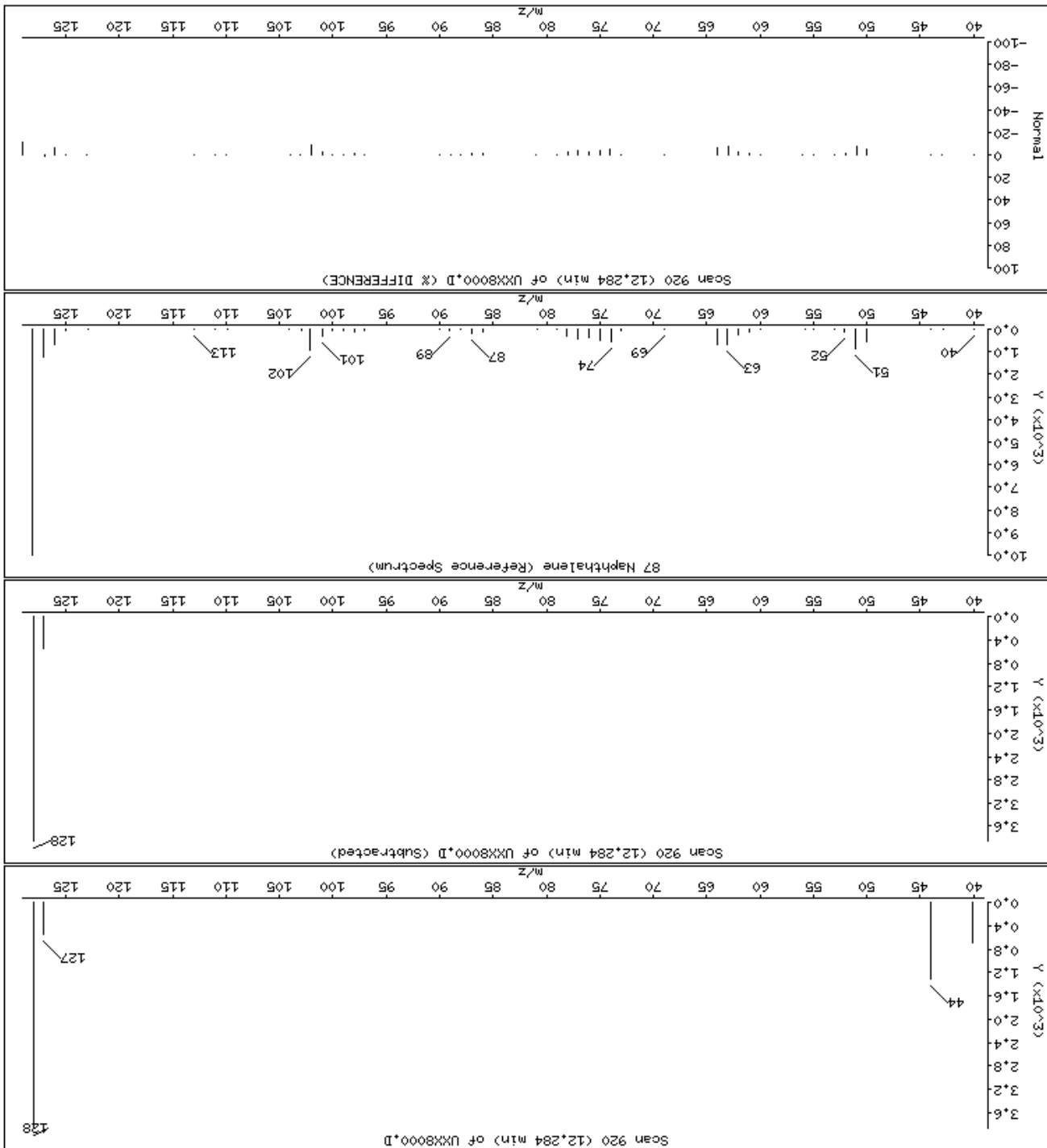






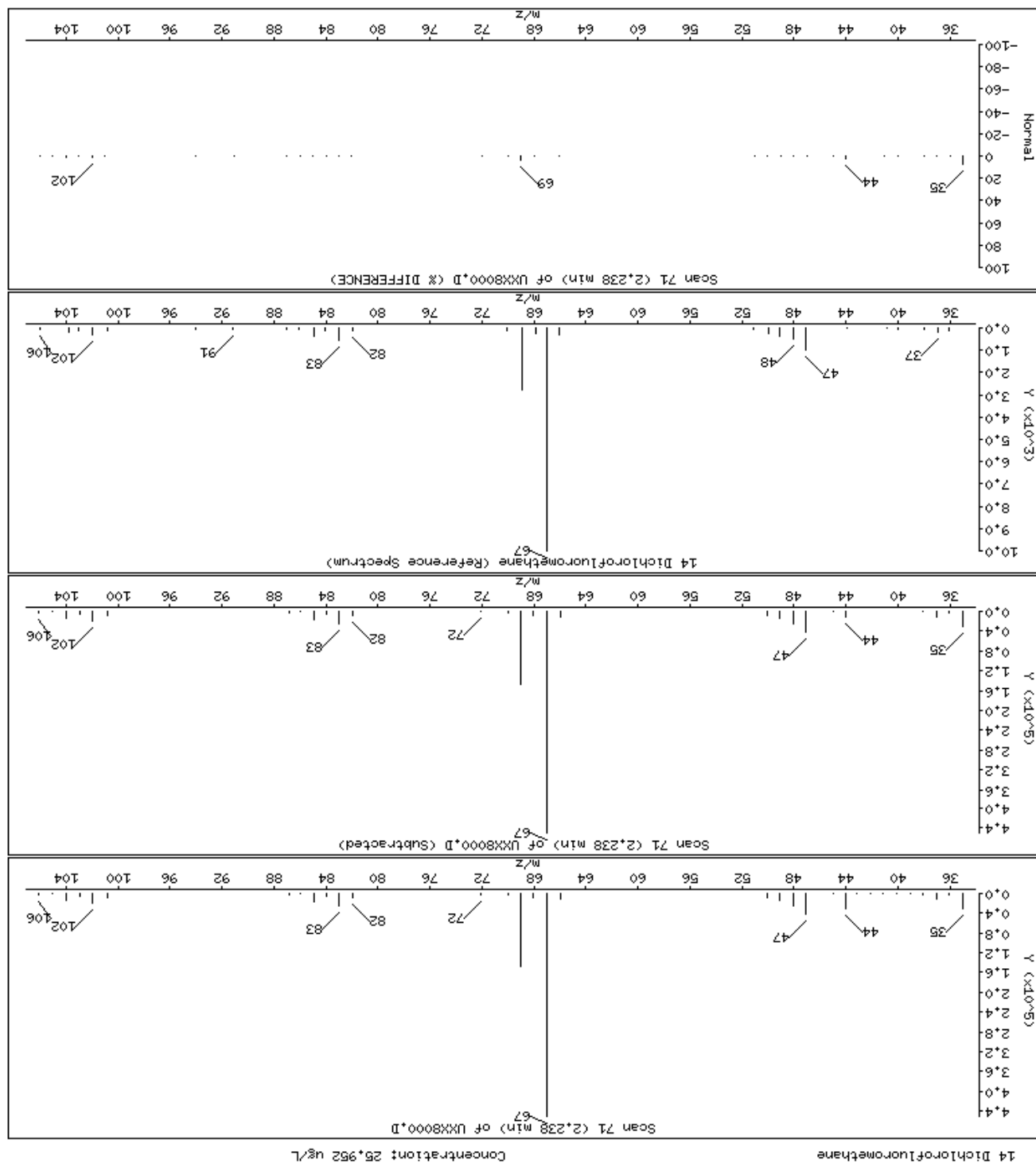
77 1,2,4-Trimethylbenzene
Concentration: 0.2487 ug/L
Column phase: DB624
Column diameter: 0.18
Operator: 1904
Sample Info: HC3QNTAA, BHL/BHL
Client ID: HM-108BH0195(201101
Instrument: 330x10.1
Date: 10-JAN-2011 12:43

Data File: \\cansvr11\dd\chem\MSV\330x10.1\PI0110A.B\UXK8000.D



87 Naphthalene
Concentration: 0.5926 ug/L
Column phase: DB624
Purge Volume: 5.0
Operator: 1904
Sample Info: HC3QNTAA,BHL/BHL
Client ID: HM-108BH0195(201101
Instrument: 33ux10.1
Date : 10-JAN-2011 12:43

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PI0110A,B\UXK8000.D

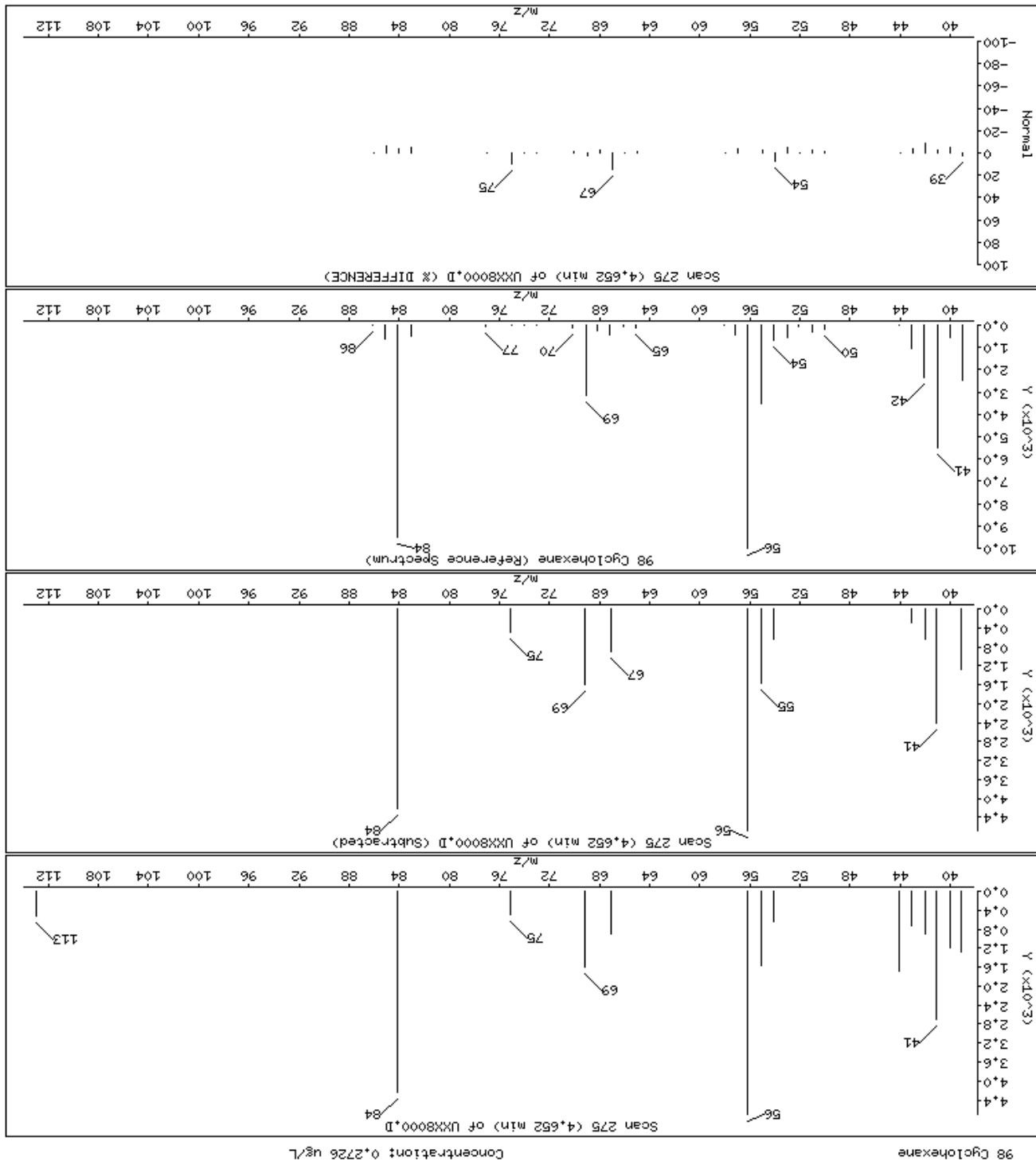


Client ID: HM-108BH0195(201101
Sample Info: HC3QNTAA,BHL/BHL
Purge Volume: 5.0
Operator: 1904
Column phase: DB624
Column diameter: 0.18

Instrument: 330x10.1

Date: 10-JAN-2011 12:43

Data File: \\cansvr11\dd\chem\MSV\330x10.1\P10110A,B\UXX8000.D



Data File: \\cansvr11\dd\chem\MSV\33x10.1\P10110A.B\UXX8000.D

Date : 10-JAN-2011 12:43

Client ID: HM-108BH0195(201101

Sample Info: HC30N1AA,BHL/BHL

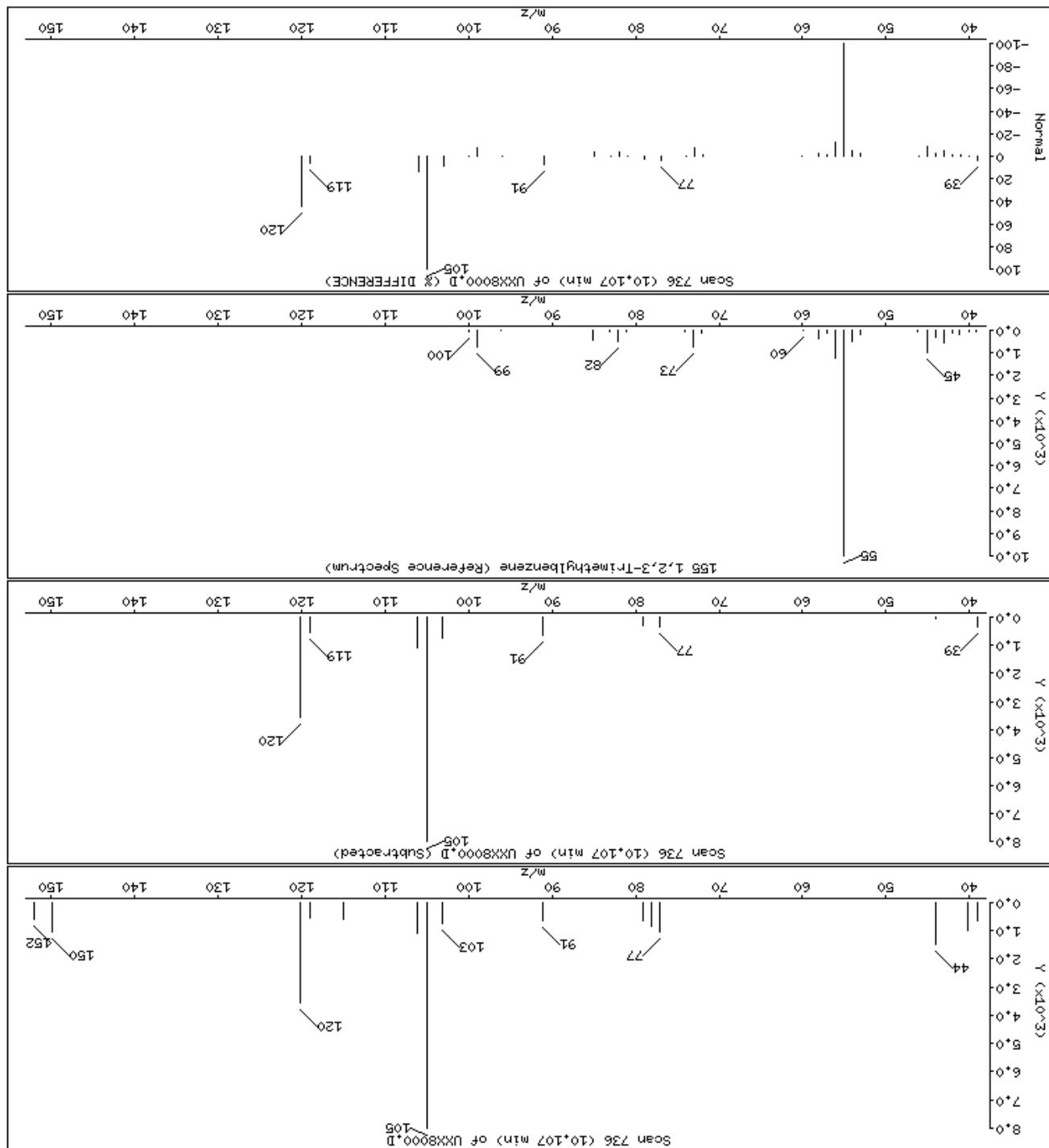
Purge Volume: 5.0

Column phase: DB624

Column diameter: 0.18

Operator: 1904

Instrument: 33x10.1



155 1,2,3-Trimethylbenzene Concentration: 0.1597 ug/L

Column phase: DB624 Column diameter: 0.18

Purge Volume: 5.0 Operator: 1904

Sample Info: HC3QNA4,5HL/5HL

Client ID: HM-108BH0195(201101

Date: 10-JAN-2011 12:43

Data File: \\cansvr11\dd\chem\MSV\3ux10,1\P10110A,B\UXX8000.D

Instrument: 3ux10.1

TRW Automotive

Client Sample ID: TB-20110105

GC/MS Volatiles

Lot-Sample #...: A1A060436-002 Work Order #...: MC3QT1AA Matrix.....: WQ
 Date Sampled...: 01/05/11 Date Received..: 01/06/11
 Prep Date.....: 01/10/11 Analysis Date..: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20110105

GC/MS Volatiles

Lot-Sample #...: A1A060436-002 Work Order #...: MC3QT1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(75 - 121)
1,2-Dichloroethane-d4	98	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7997.D
 Report Date: 10-Jan-2011 13:18

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7997.D
 Lab Smp Id: MC3QT1AA Client Smp ID: TB-20110105
 Inj Date : 10-JAN-2011 11:38
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info : MC3QT1AA,5ML/5ML
 Misc Info : P10110A,8260LLUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Fluorobenzene	96	5.115	5.113	(1.000)	1175375	50.0000			
* 2 Chlorobenzene-d5	117	7.789	7.787	(1.000)	885551	50.0000			
* 3 1,4-Dichlorobenzene-d4	152	10.037	10.036	(1.000)	542829	50.0000			
\$ 4 Dibromofluoromethane	113	4.535	4.533	(0.887)	226319	48.8053		9.761	
\$ 5 1,2-Dichloroethane-d4	65	4.819	4.817	(0.942)	266951	49.1816		9.836	
\$ 6 Toluene-d8	98	6.475	6.474	(0.831)	871339	44.9778		8.996	
\$ 7 Bromofluorobenzene	95	8.901	8.900	(1.143)	298691	43.9170		8.783	
8 Dichlorodifluoromethane	85	Compound Not Detected.							
9 Chloromethane	50	Compound Not Detected.							
10 Vinyl Chloride	62	Compound Not Detected.							
11 Bromomethane	94	Compound Not Detected.							
12 Chloroethane	64	Compound Not Detected.							
13 Trichlorofluoromethane	101	Compound Not Detected.							
15 Acrolein	56	Compound Not Detected.							
16 Acetone	43	2.736	2.735	(0.535)	22726	15.6478		3.130	
17 1,1-Dichloroethene	96	Compound Not Detected.							
18 Freon-113	151	Compound Not Detected.							
19 Iodomethane	142	Compound Not Detected.							
20 Carbon Disulfide	76	Compound Not Detected.							
21 Methylene Chloride	84	Compound Not Detected.							

22 Acetonitrile	41	Compound Not Detected.
23 Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7997.D
 Report Date: 10-Jan-2011 13:18

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	MASS					(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	Compound	Not	Detected.				
25 trans-1,2-Dichloroethene	96	Compound	Not	Detected.				
26 Hexane	86	Compound	Not	Detected.				
27 Vinyl acetate	43	Compound	Not	Detected.				
28 1,1-Dichloroethane	63	Compound	Not	Detected.				
29 tert-Butyl Alcohol	59	Compound	Not	Detected.				
30 2-Butanone	43	Compound	Not	Detected.				
M 31 1,2-Dichloroethene (total)	96	Compound	Not	Detected.				
32 cis-1,2-dichloroethene	96	Compound	Not	Detected.				
33 2,2-Dichloropropane	77	Compound	Not	Detected.				
34 Bromochloromethane	128	Compound	Not	Detected.				
35 Chloroform	83	Compound	Not	Detected.				
36 Tetrahydrofuran	42	Compound	Not	Detected.				
37 1,1,1-Trichloroethane	97	Compound	Not	Detected.				
38 1,1-Dichloropropene	75	Compound	Not	Detected.				
39 Carbon Tetrachloride	117	Compound	Not	Detected.				
40 1,2-Dichloroethane	62	Compound	Not	Detected.				
41 Benzene	78	Compound	Not	Detected.				
42 Trichloroethene	130	Compound	Not	Detected.				
43 1,2-Dichloropropane	63	Compound	Not	Detected.				
44 1,4-Dioxane	88	Compound	Not	Detected.				
45 Dibromomethane	93	Compound	Not	Detected.				
46 Bromodichloromethane	83	Compound	Not	Detected.				
47 2-Chloroethyl vinyl ether	63	Compound	Not	Detected.				
48 cis-1,3-Dichloropropene	75	Compound	Not	Detected.				
49 4-Methyl-2-pentanone	43	Compound	Not	Detected.				
50 Toluene	91	Compound	Not	Detected.				
51 trans-1,3-Dichloropropene	75	Compound	Not	Detected.				
52 Ethyl Methacrylate	69	Compound	Not	Detected.				
53 1,1,2-Trichloroethane	97	Compound	Not	Detected.				
54 1,3-Dichloropropane	76	Compound	Not	Detected.				
55 Tetrachloroethene	164	Compound	Not	Detected.				
56 2-Hexanone	43	Compound	Not	Detected.				
57 Dibromochloromethane	129	Compound	Not	Detected.				
58 1,2-Dibromoethane	107	Compound	Not	Detected.				
59 Chlorobenzene	112	Compound	Not	Detected.				
60 1,1,1,2-Tetrachloroethane	131	Compound	Not	Detected.				
61 Ethylbenzene	106	Compound	Not	Detected.				
62 m + p-Xylene	106	Compound	Not	Detected.				
M 63 Xylenes (total)	106	Compound	Not	Detected.				
64 Xylene-o	106	Compound	Not	Detected.				
65 Styrene	104	Compound	Not	Detected.				
66 Bromoform	173	Compound	Not	Detected.				
67 Isopropylbenzene	105	Compound	Not	Detected.				
68 1,1,2,2-Tetrachloroethane	83	Compound	Not	Detected.				
69 1,4-Dichloro-2-butene	53	Compound	Not	Detected.				
70 1,2,3-Trichloropropane	110	Compound	Not	Detected.				
71 Bromobenzene	156	Compound	Not	Detected.				
72 n-Propylbenzene	120	Compound	Not	Detected.				
73 2-Chlorotoluene	126	Compound	Not	Detected.				
74 1,3,5-Trimethylbenzene	105	Compound	Not	Detected.				
75 4-Chlorotoluene	126	Compound	Not	Detected.				

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\A3UX10.I\PI0110A.B\UXX7997.D
 Report Date: 10-Jan-2011 13:18

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
78 sec-Butylbenzene	105	Compound	Not	Detected.			
79 4-Isopropyltoluene	119	Compound	Not	Detected.			
80 1,3-Dichlorobenzene	146	Compound	Not	Detected.			
81 1,4-Dichlorobenzene	146	Compound	Not	Detected.			
82 n-Butylbenzene	91	Compound	Not	Detected.			
83 1,2-Dichlorobenzene	146	Compound	Not	Detected.			
84 1,2-Dibromo-3-chloropropane	157	Compound	Not	Detected.			
85 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.			
86 Hexachlorobutadiene	225	Compound	Not	Detected.			
87 Naphthalene	128	Compound	Not	Detected.			
88 1,2,3-Trichlorobenzene	180	Compound	Not	Detected.			
14 Dichlorofluoromethane	67	Compound	Not	Detected.			
89 Ethyl Ether	59	Compound	Not	Detected.			
91 3-Chloropropene	76	Compound	Not	Detected.			
92 Isopropyl Ether	87	Compound	Not	Detected.			
93 2-Chloro-1,3-butadiene	53	Compound	Not	Detected.			
94 Propionitrile	54	Compound	Not	Detected.			
95 Ethyl Acetate	43	Compound	Not	Detected.			
96 Methacrylonitrile	41	Compound	Not	Detected.			
97 Isobutanol	41	Compound	Not	Detected.			
99 n-Butanol	56	Compound	Not	Detected.			
100 Methyl Methacrylate	41	Compound	Not	Detected.			
101 2-Nitropropane	41	Compound	Not	Detected.			
103 Cyclohexanone	55	Compound	Not	Detected.			
98 Cyclohexane	56	Compound	Not	Detected.			
143 Methyl Acetate	43	Compound	Not	Detected.			
144 Methylcyclohexane	83	Compound	Not	Detected.			
141 1,3,5-Trichlorobenzene	180	Compound	Not	Detected.			
146 2-Methylnaphthalene	142	Compound	Not	Detected.			
149 Vinyl Acetate-86	86	Compound	Not	Detected.			
153 t-Butyl ethyl ether	59	Compound	Not	Detected.			
154 t-Amyl methyl ether	73	Compound	Not	Detected.			
155 1,2,3-Trimethylbenzene	105	Compound	Not	Detected.			

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7997.D
 Report Date: 10-Jan-2011 13:18

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i	Calibration Date: 10-JAN-2011
Lab File ID: UXX7997.D	Calibration Time: 09:51
Lab Smp Id: MC3QT1AA	Client Smp ID: TB-20110105
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: 1904	
Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m	
Misc Info: P10110A,8260LLUX10,,1904	

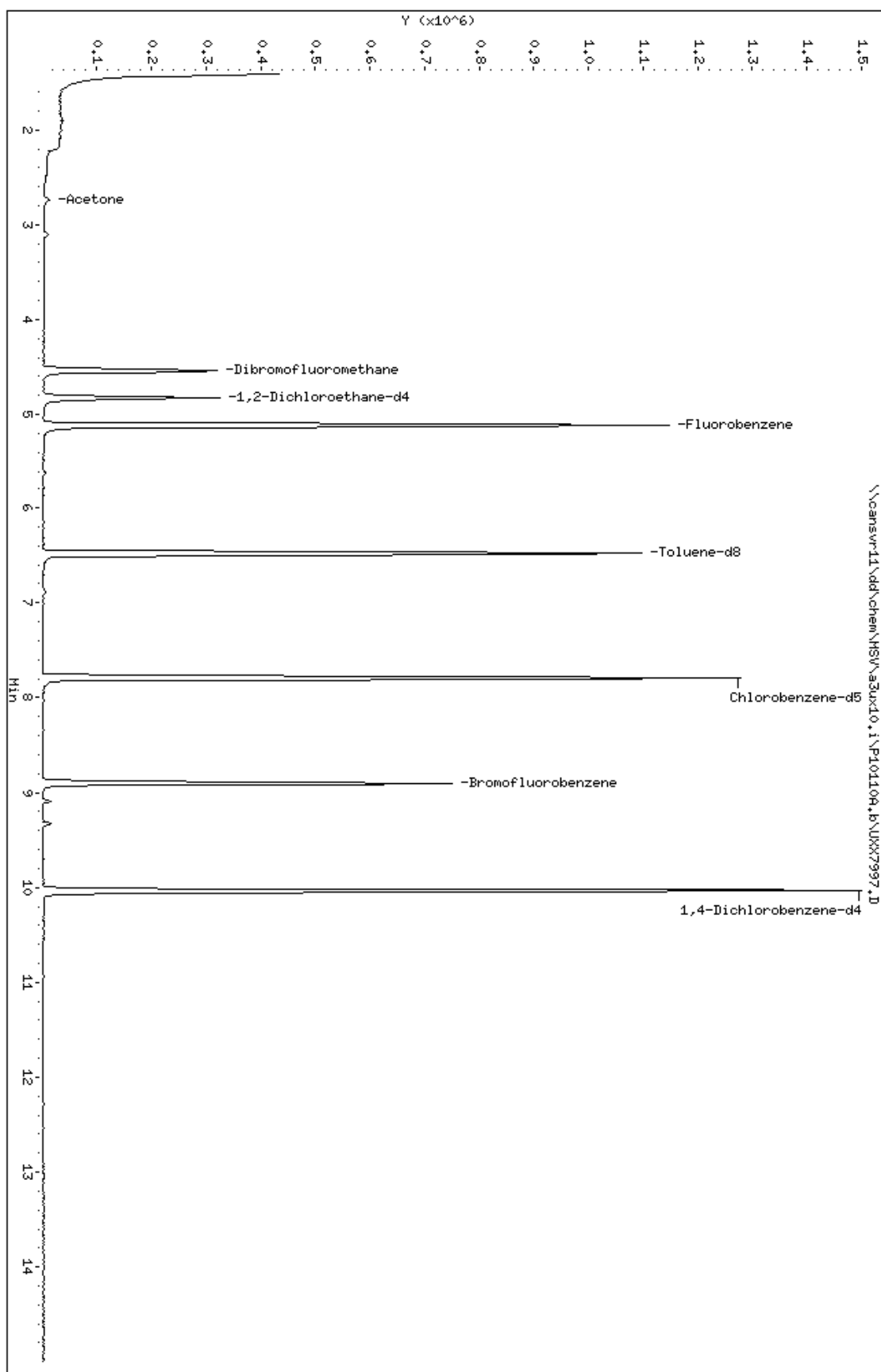
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1175375	-14.21
2 Chlorobenzene-d5	1084996	542498	2169992	885551	-18.38
3 1,4-Dichlorobenze	659942	329971	1319884	542829	-17.75

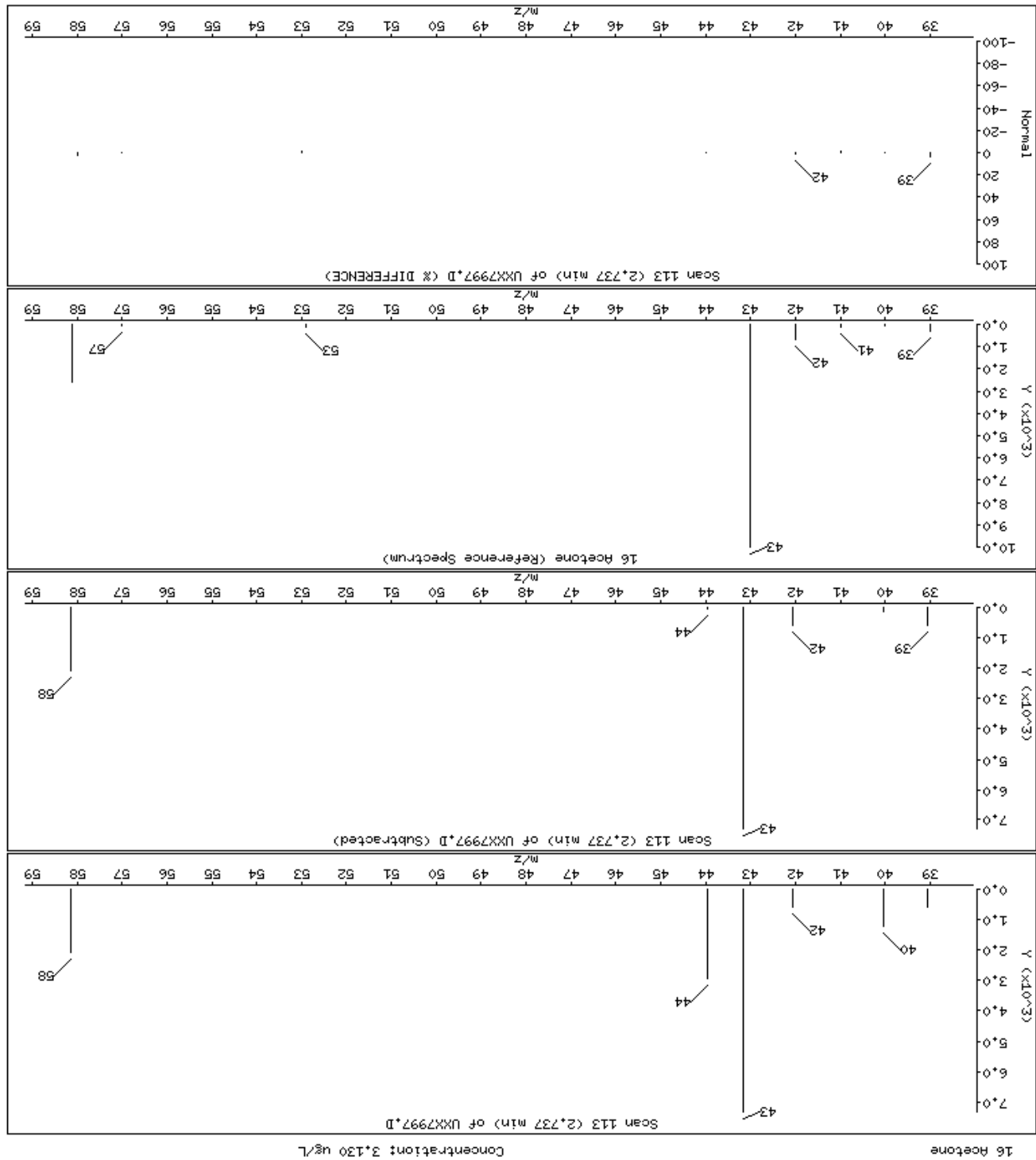
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.12	0.03
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101106.b\UX7997.D
 Date : 10-JAN-2011 11:38
 Client ID: TB-20110105
 Sample Info: MC30T190,5HL/5HL
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18





Concentration: 3.130 ug/L

16 Acetone

Column phase: DB624

Purge Volume: 5.0

Operator: 1904

Sample Info: HC3011AA, BHL/BHL

Instrument: 330x10.1

Date: 10-JAN-2011 11:38

Data File: \\cansvr11\dd\chem\MSV\330x10.1\PI0110A.B\UXK7997.D

STANDARD DATA

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Start Cal Date: 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Last Cal Level: 4
 Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
23-NOV-2010 23:13	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6626.D
14-NOV-2010 21:03	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6205.D
29-DEC-2010 11:20	2-8260	\\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7806.D
Cal Level: 2 , Cal Amount: 10.00000		
23-NOV-2010 22:51	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6625.D
14-NOV-2010 20:42	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6204.D
29-DEC-2010 10:59	2-8260	\\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7805.D
Cal Level: 3 , Cal Amount: 25.00000		
23-NOV-2010 22:30	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6624.D
14-NOV-2010 20:21	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6203.D
29-DEC-2010 10:38	2-8260	\\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7804.D
Cal Level: 4 , Cal Amount: 50.00000		
23-NOV-2010 22:09	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6623.D
14-NOV-2010 19:59	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6202.D
29-DEC-2010 10:17	2-8260	\\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7803.D
Cal Level: 5 , Cal Amount: 100.00000		
23-NOV-2010 21:47	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6622.D
14-NOV-2010 19:38	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6201.D

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|29-DEC-2010 09:55 |2-8260|
|\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7802.D|
+-----+-----+-----+
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+-----+-----+-----+
| Cal Level: 6 , Cal Amount: 200.00000|
+=====+
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|23-NOV-2010 21:26 |MISC|
|\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6621.D|
|14-NOV-2010 19:17 |3-IX|
|\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6200.D|
|29-DEC-2010 09:33 |2-8260|
|\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7801.D|
+-----+-----+-----+
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Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

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+-----+-----+-----+
|29-DEC-2010 10:17 |2-8260|
|\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7803.D|
|29-DEC-2010 12:20 |3-IX|
|\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7808.D|
+-----+-----+-----+
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Report Date : 29-Dec-2010 12:18

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\PO1229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i
 Curve Type : Average

Calibration File Names:

Level 1: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6626.D
 Level 2: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6625.D
 Level 3: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6624.D
 Level 4: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6623.D
 Level 5: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6622.D
 Level 6: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6621.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
8 Dichlorodifluoromethane	0.18204	0.18097	0.17896	0.15489	0.18012	0.18032	0.17622	5.956
9 Chloromethane	0.23676	0.24715	0.23393	0.22952	0.23691	0.20352	0.23130	6.396
10 Vinyl Chloride	0.21912	0.21900	0.21588	0.21565	0.22009	0.20117	0.21515	3.294
11 Bromomethane	0.10361	0.12226	0.09785	0.10182	0.11281	0.08927	0.10460	11.054
12 Chloroethane	0.14381	0.14196	0.12666	0.12563	0.13649	0.11597	0.13175	8.207
13 Trichlorofluoromethane	0.19533	0.20304	0.19580	0.17916	0.20944	0.17351	0.19271	7.171
14 Dichlorofluoromethane	0.36335	0.36819	0.37724	0.36293	0.36692	0.36318	0.36697	1.497
15 Acrolein	0.03022	0.02940	0.03330	0.03531	0.03036	0.03784	0.03274	10.227
16 Acetone	0.07861	0.06499	0.05571	0.05788	0.05405	0.05945	0.06178	14.674
17 1,1-Dichloroethene	0.22873	0.21313	0.21702	0.20946	0.20613	0.20917	0.21394	3.813
18 Freon-113	0.15461	0.14033	0.14168	0.14030	0.15739	0.14791	0.14704	5.130
19 Iodomethane	0.32300	0.33697	0.31796	0.30191	0.33164	0.29034	0.31697	5.624
20 Carbon Disulfide	0.60854	0.58915	0.59573	0.57316	0.61153	0.58024	0.59306	2.572
21 Methylene Chloride	0.28785	0.26911	0.24922	0.23786	0.25654	0.23300	0.25560	7.998
22 Acetonitrile	0.02235	0.01720	0.01494	0.01798	0.01541	0.01925	0.01785	15.259
23 Acrylonitrile	0.07280	0.07382	0.07464	0.07764	0.07716	0.08084	0.07615	3.903
24 Methyl tert-butyl ether	0.60634	0.57350	0.58933	0.59013	0.63823	0.61212	0.60161	3.751
25 trans-1,2-Dichloroethene	0.25634	0.24096	0.24476	0.23599	0.25201	0.23613	0.24436	3.432
26 Hexane	0.04034	0.03616	0.04432	0.04340	0.05072	0.04865	0.04393	12.133
27 Vinyl acetate	0.23471	0.23792	0.25978	0.26798	0.28129	0.29602	0.26295	9.143
28 1,1-Dichloroethane	0.39954	0.38119	0.38606	0.37873	0.40398	0.38359	0.38885	2.672
29 tert-Butyl Alcohol	0.01217	0.00949	0.00994	0.01137	0.01099	0.01268	0.01111	11.165
30 2-Butanone	0.07577	0.07483	0.07453	0.07887	0.07484	0.08207	0.07682	3.948
M 31 1,2-Dichloroethene (total)	0.25316	0.24112	0.24411	0.23855	0.25420	0.23987	0.24517	2.795
32 cis-1,2-dichloroethene	0.24998	0.24128	0.24347	0.24112	0.25639	0.24361	0.24597	2.453
33 2,2-Dichloropropane	0.21911	0.20964	0.21750	0.21065	0.23732	0.21103	0.21754	4.803
34 Bromochloromethane	0.12469	0.11712	0.11870	0.11462	0.11961	0.11502	0.11829	3.126
35 Chloroform	0.37999	0.35967	0.36502	0.35936	0.38093	0.36395	0.36815	2.661

Report Date : 29-Dec-2010 12:18

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
36 Tetrahydrofuran	0.05824	0.05099	0.04989	0.05136	0.05215	0.05361	0.05271	5.659
37 1,1,1-Trichloroethane	0.27662	0.27874	0.28632	0.27406	0.30129	0.27589	0.28216	3.651
38 1,1-Dichloropropene	0.27131	0.26560	0.28261	0.28487	0.30115	0.28945	0.28250	4.513
39 Carbon Tetrachloride	0.20154	0.20478	0.21359	0.21256	0.23848	0.22721	0.21636	6.481
40 1,2-Dichloroethane	0.26123	0.26044	0.26480	0.25999	0.27272	0.26298	0.26369	1.808
41 Benzene	0.95879	0.89866	0.91890	0.91503	0.95374	0.92360	0.92812	2.523
42 Trichloroethene	0.24380	0.23224	0.23269	0.23266	0.24280	0.23320	0.23623	2.325
43 1,2-Dichloropropane	0.21448	0.20060	0.20853	0.20971	0.22058	0.21486	0.21146	3.230
44 1,4-Dioxane	0.00094	0.00078	0.00102	0.00148	0.00123	0.00151	0.00116	25.795
45 Dibromomethane	0.11871	0.11409	0.11598	0.11773	0.12224	0.12047	0.11820	2.502
46 Bromodichloromethane	0.22406	0.22113	0.22448	0.23823	0.25612	0.25693	0.23682	6.913
47 2-Chloroethyl vinyl ether	0.08665	0.09207	0.10345	0.11841	0.11891	0.13187	0.10856	16.093
48 cis-1,3-Dichloropropene	0.24297	0.24229	0.26823	0.29941	0.32174	0.32458	0.28320	13.190
49 4-Methyl-2-pentanone	0.12801	0.13644	0.14352	0.15521	0.15611	0.17257	0.14864	10.730
50 Toluene	1.26245	1.27660	1.29890	1.27851	1.37531	1.28907	1.29680	3.113
51 trans-1,3-Dichloropropene	0.28298	0.27964	0.30358	0.33088	0.36816	0.36770	0.32216	12.381
52 Ethyl Methacrylate	0.23382	0.26692	0.29202	0.31936	0.35601	0.35420	0.30372	16.066
53 1,1,2-Trichloroethane	0.25810	0.24114	0.24178	0.23662	0.25106	0.23775	0.24441	3.443
54 1,3-Dichloropropane	0.43601	0.41319	0.42260	0.42798	0.45311	0.43178	0.43078	3.133
55 Tetrachloroethene	0.28195	0.25862	0.26349	0.25491	0.27543	0.25390	0.26471	4.352
56 2-Hexanone	0.09632	0.11046	0.11951	0.13348	0.13542	0.15002	0.12420	15.558
57 Dibromochloromethane	0.20077	0.19816	0.21285	0.22418	0.24877	0.25234	0.22284	10.506
58 1,2-Dibromoethane	0.22025	0.22340	0.22769	0.23556	0.24582	0.23842	0.23185	4.206
59 Chlorobenzene	0.88876	0.83881	0.83414	0.83300	0.87549	0.82829	0.84975	3.018
60 1,1,1,2-Tetrachloroethane	0.26379	0.25526	0.25797	0.26397	0.29352	0.27333	0.26797	5.214
61 Ethylbenzene	0.41572	0.41840	0.44015	0.44465	0.47798	0.45064	0.44126	5.192
62 m + p-Xylene	0.51774	0.53548	0.55287	0.56502	0.60694	0.56236	0.55674	5.453
M 63 Xylenes (total)	0.51695	0.52896	0.54585	0.55820	0.60272	0.55335	0.55101	5.386
64 Xylene-o	0.51537	0.51592	0.53181	0.54456	0.59427	0.53533	0.53954	5.397
65 Styrene	0.72622	0.75664	0.81140	0.86901	0.94337	0.88552	0.83203	9.901
66 Bromoform	0.10369	0.10618	0.11244	0.13111	0.14750	0.15901	0.12665	18.175
67 Isopropylbenzene	1.24238	1.24319	1.31476	1.37035	1.49420	1.35214	1.33617	7.044
68 1,1,2,2-Tetrachloroethane	0.53549	0.54219	0.55125	0.54693	0.58476	0.58947	0.55835	4.108
69 1,4-Dichloro-2-butene	0.05371	0.06683	0.07200	0.08878	0.09434	0.11838	0.08234	27.970
70 1,2,3-Trichloropropane	0.16235	0.16990	0.17244	0.17749	0.18339	0.18873	0.17572	5.427
71 Bromobenzene	0.62006	0.62022	0.63769	0.64238	0.69282	0.69863	0.65197	5.387

Report Date : 29-Dec-2010 12:18

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
72 n-Propylbenzene	0.54236	0.60894	0.66206	0.67200	0.74531	0.72281	0.65891	11.318	
73 2-Chlorotoluene	0.55655	0.58935	0.61205	0.60952	0.65659	0.63338	0.60957	5.685	
74 1,3,5-Trimethylbenzene	1.71631	1.86066	2.00730	2.05896	2.25229	2.11141	2.00116	9.468	
75 4-Chlorotoluene	0.56623	0.60798	0.61639	0.63897	0.68239	0.66940	0.63023	6.774	
76 tert-Butylbenzene	1.46055	1.55350	1.69184	1.74374	1.91762	1.78139	1.69144	9.690	
77 1,2,4-Trimethylbenzene	1.76058	1.90788	2.03840	2.08437	2.28584	2.12434	2.03357	8.928	
78 sec-Butylbenzene	1.98005	2.08356	2.24138	2.33162	2.58916	2.36063	2.26440	9.540	
79 4-Isopropyltoluene	1.67931	1.76814	1.89805	2.00527	2.20994	2.00299	1.92729	9.828	
80 1,3-Dichlorobenzene	1.27709	1.21168	1.22776	1.20965	1.28703	1.20267	1.23598	2.974	
81 1,4-Dichlorobenzene	1.37093	1.30259	1.27313	1.25409	1.33584	1.23455	1.29519	3.981	
82 n-Butylbenzene	1.34977	1.36563	1.48836	1.56063	1.76838	1.55721	1.51500	10.157	
83 1,2-Dichlorobenzene	1.24044	1.17817	1.14839	1.14513	1.22856	1.08659	1.17121	4.904	
84 1,2-Dibromo-3-chloropropane	0.07480	0.07361	0.08447	0.08598	0.09880	0.09289	0.08509	11.609	
85 1,2,4-Trichlorobenzene	0.72641	0.66276	0.68001	0.70365	0.80321	0.61224	0.69804	9.246	
86 Hexachlorobutadiene	0.25893	0.24072	0.24888	0.25722	0.29836	0.22313	0.25454	9.870	
87 Naphthalene	1.24251	1.25509	1.43934	1.58576	1.89152	1.46550	1.47995	16.256	
88 1,2,3-Trichlorobenzene	0.66613	0.61237	0.62450	0.65029	0.74070	0.54656	0.64009	10.043	
89 Ethyl Ether	0.18741	0.18345	0.19163	0.18515	0.19289	0.18637	0.18782	1.975	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 3-Chloropropene	0.10555	0.11270	0.12372	0.12004	0.12569	0.12674	0.11907	7.011	
92 Isopropyl Ether	0.19748	0.20425	0.20923	0.20695	0.21930	0.21813	0.20923	3.990	
93 2-Chloro-1,3-butadiene	0.32831	0.33462	0.34830	0.34629	0.35826	0.35950	0.34588	3.612	
94 Propionitrile	0.02136	0.02432	0.02467	0.02364	0.02598	0.02748	0.02458	8.480	
95 Ethyl Acetate	0.17003	0.15981	0.15806	0.15130	0.17276	0.17226	0.16404	5.421	
96 Methacrylonitrile	0.11506	0.12636	0.12399	0.11560	0.12341	0.12406	0.12142	3.971	
97 Isobutanol	0.00697	0.00790	0.00769	0.00720	0.00739	0.00712	0.00738	4.821	<-
98 Cyclohexane	0.30787	0.28573	0.32999	0.32164	0.37445	0.34833	0.32800	9.454	
99 n-Butanol	0.00468	0.00527	0.00603	0.00585	0.00642	0.00628	0.00575	11.553	<-
100 Methyl Methacrylate	0.13904	0.14397	0.14455	0.13970	0.15465	0.15690	0.14647	5.168	
101 2-Nitropropane	0.03176	0.03501	0.03333	0.03657	0.04347	0.04667	0.03780	15.720	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
103 Cyclohexanone	0.01808	0.01711	0.01827	0.01827	0.01947	0.01916	0.01839	4.554	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Report Date : 29-Dec-2010 12:18

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 a3ux10.i
 Curve Type : Average

Compound	5.000	10.000	25.000	50.000	100.000	200.000	RRF	% RSD	
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6				
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	++++	++++	<-
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	++++	++++	<-
138 Paraldehyde	++++	++++	++++	++++	++++	++++	++++	++++	<-
139 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	++++	++++	<-
140 1-Chlorohexane	0.23326	0.24673	0.26032	0.26964	0.30403	0.31055	0.27075	11.424	
141 1,3,5-Trichlorobenzene	0.81881	0.75661	0.75941	0.76783	0.86631	0.68469	0.77561	7.957	
143 Methyl Acetate	0.15622	0.14977	0.15215	0.15379	0.15779	0.15895	0.15478	2.267	
144 Methylcyclohexane	0.28403	0.26673	0.30138	0.30645	0.36426	0.34816	0.31184	12.010	
145 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++	++++	<-
146 2-Methylnaphthalene	0.33455	0.34164	0.34668	0.38420	0.38692	0.36032	0.35905	6.187	
147 Tetrahydrothiophene	0.13935	0.14463	0.16468	0.18081	0.20413	0.21952	0.17552	18.306	
148 1,4-Dichlorobutane	0.38108	0.36767	0.38657	0.38918	0.42186	0.44454	0.39848	7.229	
149 Vinyl Acetate-86	0.02631	0.02581	0.03066	0.03384	0.03483	0.03641	0.03131	14.323	
150 1,3-Butadiene	++++	++++	++++	++++	++++	++++	++++	++++	<-
151 Ethyl Acrylate	++++	++++	++++	++++	++++	++++	++++	++++	<-
152 n-Heptane	0.04042	0.03307	0.03515	0.04522	0.04452	0.04869	0.04118	14.839	
153 t-Butyl ethyl ether	0.63965	0.66003	0.68570	0.68153	0.71686	0.71163	0.68257	4.337	
154 t-Amyl methyl ether	0.58724	0.62037	0.62795	0.62447	0.66322	0.65940	0.63044	4.443	
155 1,2,3-Trimethylbenzene	1.66024	1.77538	1.79476	1.79618	1.95335	1.96473	1.82411	6.362	
156 n-Butyl Acetate	++++	++++	++++	++++	++++	++++	++++	++++	<-
\$ 4 Dibromofluoromethane	0.20099	0.19533	0.19298	0.19712	0.19804	0.19913	0.19726	1.436	
\$ 5 1,2-Dichloroethane-d4	0.24117	0.23347	0.21935	0.23543	0.23324	0.22274	0.23090	3.562	
\$ 6 Toluene-d8	1.10092	1.06382	1.10604	1.09043	1.11815	1.08356	1.09382	1.739	
\$ 7 Bromofluorobenzene	0.38849	0.36163	0.37034	0.40593	0.39294	0.38474	0.38401	4.148	

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Start Cal Date : 14-NOV-2010 16:46
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 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\PO1229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i

Calibration File Names:

Level 1: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6626.D
 Level 2: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6625.D
 Level 3: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6624.D
 Level 4: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6623.D
 Level 5: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6622.D
 Level 6: \\cansvr11\dd\chem\MSV\3ux10.i\PO1123B-IC.b\UXX6621.D

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
8 Dichlorodifluoromethane	0.18204	0.18097	0.17896	0.15489	0.18012	0.18032	AVRG		0.17622		5.95635
9 Chloromethane	0.23676	0.24715	0.23393	0.22952	0.23691	0.20352	AVRG		0.23130		6.39637
10 Vinyl Chloride	0.21912	0.21900	0.21588	0.21565	0.22009	0.20117	AVRG		0.21515		3.29429
11 Bromomethane	0.10361	0.12226	0.09785	0.10182	0.11281	0.08927	AVRG		0.10460		11.05393
12 Chloroethane	0.14381	0.14196	0.12666	0.12563	0.13649	0.11597	AVRG		0.13175		8.20711
13 Trichlorofluoromethane	0.19533	0.20304	0.19580	0.17916	0.20944	0.17351	AVRG		0.19271		7.17142
14 Dichlorofluoromethane	0.36335	0.36819	0.37724	0.36293	0.36692	0.36318	AVRG		0.36697		1.49680
15 Acrolein	0.03022	0.02940	0.03330	0.03531	0.03036	0.03784	AVRG		0.03274		10.22699
16 Acetone	0.07861	0.06499	0.05571	0.05788	0.05405	0.05945	AVRG		0.06178		14.67413
17 1,1-Dichloroethene	0.22873	0.21313	0.21702	0.20946	0.20613	0.20917	AVRG		0.21394		3.81315
18 Freon-113	0.15461	0.14033	0.14168	0.14030	0.15739	0.14791	AVRG		0.14704		5.12960
19 Iodomethane	0.32300	0.33697	0.31796	0.30191	0.33164	0.29034	AVRG		0.31697		5.62367
20 Carbon Disulfide	0.60854	0.58915	0.59573	0.57316	0.61153	0.58024	AVRG		0.59306		2.57220
21 Methylene Chloride	0.28785	0.26911	0.24922	0.23786	0.25654	0.23300	AVRG		0.25560		7.99829

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Start Cal Date : 14-NOV-2010 16:46
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 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\PO1229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	or R^2
22 Acetonitrile	32948	55035	114880	299435	515543	1312319	QUAD	-0.61152	71.41747	-24.13458	0.99721
23 Acrylonitrile	0.07280	0.07382	0.07464	0.07764	0.07716	0.08084	AVRG		0.07615		3.90253
24 Methyl tert-butyl ether	0.60634	0.57350	0.58933	0.59013	0.63823	0.61212	AVRG		0.60161		3.75120
25 trans-1,2-Dichloroethene	0.25634	0.24096	0.24476	0.23599	0.25201	0.23613	AVRG		0.24436		3.43213
26 Hexane	0.04034	0.03616	0.04432	0.04340	0.05072	0.04865	AVRG		0.04393		12.13334
27 Vinyl acetate	0.23471	0.23792	0.25978	0.26798	0.28129	0.29602	AVRG		0.26295		9.14270
28 1,1-Dichloroethane	0.39954	0.38119	0.38606	0.37873	0.40398	0.38359	AVRG		0.38885		2.67212
29 tert-Butyl Alcohol	0.01217	0.00949	0.00994	0.01137	0.01099	0.01268	AVRG		0.01111		11.16468
30 2-Butanone	0.07577	0.07483	0.07453	0.07887	0.07484	0.08207	AVRG		0.07682		3.94761
M 31 1,2-Dichloroethene (total)	0.25316	0.24112	0.24411	0.23855	0.25420	0.23987	AVRG		0.24517		2.79543
32 cis-1,2-dichloroethene	0.24998	0.24128	0.24347	0.24112	0.25639	0.24361	AVRG		0.24597		2.45338
33 2,2-Dichloropropane	0.21911	0.20964	0.21750	0.21065	0.23732	0.21103	AVRG		0.21754		4.80262
34 Bromochloromethane	0.12469	0.11712	0.11870	0.11462	0.11961	0.11502	AVRG		0.11829		3.12613
35 Chloroform	0.37999	0.35967	0.36502	0.35936	0.38093	0.36395	AVRG		0.36815		2.66142
36 Tetrahydrofuran	0.05824	0.05099	0.04989	0.05136	0.05215	0.05361	AVRG		0.05271		5.65868
37 1,1,1-Trichloroethane	0.27662	0.27874	0.28632	0.27406	0.30129	0.27589	AVRG		0.28216		3.65138
38 1,1-Dichloropropene	0.27131	0.26560	0.28261	0.28487	0.30115	0.28945	AVRG		0.28250		4.51309
39 Carbon Tetrachloride	0.20154	0.20478	0.21359	0.21256	0.23848	0.22721	AVRG		0.21636		6.48070
40 1,2-Dichloroethane	0.26123	0.26044	0.26480	0.25999	0.27272	0.26298	AVRG		0.26369		1.80761
41 Benzene	0.95879	0.89866	0.91890	0.91503	0.95374	0.92360	AVRG		0.92812		2.52309
42 Trichloroethene	0.24380	0.23224	0.23269	0.23266	0.24280	0.23320	AVRG		0.23623		2.32517
43 1,2-Dichloropropane	0.21448	0.20060	0.20853	0.20971	0.22058	0.21486	AVRG		0.21146		3.23045

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Start Cal Date : 14-NOV-2010 16:46
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 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\01229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
44 1,4-Dioxane	6912	12420	39321	123307	206603	515438	QUAD	2.04690	806	-497	0.99542<-
45 Dibromomethane	0.11871	0.11409	0.11598	0.11773	0.12224	0.12047	AVRG		0.11820		2.50162
46 Bromodichloromethane	0.22406	0.22113	0.22448	0.23823	0.25612	0.25693	AVRG		0.23682		6.91298
47 2-Chloroethyl vinyl ether	25546	58933	159134	394371	795739	1798165	WLINR	0.06849	0.12210		0.99293
48 cis-1,3-Dichloropropene	0.24297	0.24229	0.26823	0.29941	0.32174	0.32458	AVRG		0.28320		13.18997
49 4-Methyl-2-pentanone	0.12801	0.13644	0.14352	0.15521	0.15611	0.17257	AVRG		0.14864		10.73026
50 Toluene	1.26245	1.27660	1.29890	1.27851	1.37531	1.28907	AVRG		1.29680		3.11333
51 trans-1,3-Dichloropropene	0.28298	0.27964	0.30358	0.33088	0.36816	0.36770	AVRG		0.32216		12.38079
52 Ethyl Methacrylate	23900	59822	159836	402237	875243	1857527	WLINR	0.03536	0.34243		0.99538
53 1,1,2-Trichloroethane	0.25810	0.24114	0.24178	0.23662	0.25106	0.23775	AVRG		0.24441		3.44346
54 1,3-Dichloropropane	0.43601	0.41319	0.42260	0.42798	0.45311	0.43178	AVRG		0.43078		3.13318
55 Tetrachloroethene	0.28195	0.25862	0.26349	0.25491	0.27543	0.25390	AVRG		0.26471		4.35217
56 2-Hexanone	19691	49511	130823	336229	665882	1573497	WLINR	0.06843	0.13947		0.99536
57 Dibromochloromethane	0.20077	0.19816	0.21285	0.22418	0.24877	0.25234	AVRG		0.22284		10.50579
58 1,2-Dibromoethane	0.22025	0.22340	0.22769	0.23556	0.24582	0.23842	AVRG		0.23185		4.20581
59 Chlorobenzene	0.88876	0.83881	0.83414	0.83300	0.87549	0.82829	AVRG		0.84975		3.01820
60 1,1,1,2-Tetrachloroethane	0.26379	0.25526	0.25797	0.26397	0.29352	0.27333	AVRG		0.26797		5.21437
61 Ethylbenzene	0.41572	0.41840	0.44015	0.44465	0.47798	0.45064	AVRG		0.44126		5.19172
62 m + p-Xylene	0.51774	0.53548	0.55287	0.56502	0.60694	0.56236	AVRG		0.55674		5.45314
M 63 Xylenes (total)	0.51695	0.52896	0.54585	0.55820	0.60272	0.55335	AVRG		0.55101		5.38613
64 Xylene-o	0.51537	0.51592	0.53181	0.54456	0.59427	0.53533	AVRG		0.53954		5.39717
65 Styrene	0.72622	0.75664	0.81140	0.86901	0.94337	0.88552	AVRG		0.83203		9.90098

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INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\01229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
66 Bromoform	10599	23797	61545	165135	362624	833873	WLINR	0.05877	0.15515		0.99398
67 Isopropylbenzene	1.24238	1.24319	1.31476	1.37035	1.49420	1.35214	AVRG		1.33617		7.04429
68 1,1,2,2-Tetrachloroethane	0.53549	0.54219	0.55125	0.54693	0.58476	0.58947	AVRG		0.55835		4.10780
69 1,4-Dichloro-2-butene	3188	8211	21099	61383	124933	309881	QUAD	0.05197	11.58420	-6.85512	0.99977
70 1,2,3-Trichloropropane	0.16235	0.16990	0.17244	0.17749	0.18339	0.18873	AVRG		0.17572		5.42710
71 Bromobenzene	0.62006	0.62022	0.63769	0.64238	0.69282	0.69863	AVRG		0.65197		5.38714
72 n-Propylbenzene	0.54236	0.60894	0.66206	0.67200	0.74531	0.72281	AVRG		0.65891		11.31836
73 2-Chlorotoluene	0.55655	0.58935	0.61205	0.60952	0.65659	0.63338	AVRG		0.60957		5.68464
74 1,3,5-Trimethylbenzene	1.71631	1.86066	2.00730	2.05896	2.25229	2.11141	AVRG		2.00116		9.46779
75 4-Chlorotoluene	0.56623	0.60798	0.61639	0.63897	0.68239	0.66940	AVRG		0.63023		6.77409
76 tert-Butylbenzene	1.46055	1.55350	1.69184	1.74374	1.91762	1.78139	AVRG		1.69144		9.69016
77 1,2,4-Trimethylbenzene	1.76058	1.90788	2.03840	2.08437	2.28584	2.12434	AVRG		2.03357		8.92779
78 sec-Butylbenzene	1.98005	2.08356	2.24138	2.33162	2.58916	2.36063	AVRG		2.26440		9.54008
79 4-Isopropyltoluene	1.67931	1.76814	1.89805	2.00527	2.20994	2.00299	AVRG		1.92729		9.82785
80 1,3-Dichlorobenzene	1.27709	1.21168	1.22776	1.20965	1.28703	1.20267	AVRG		1.23598		2.97419
81 1,4-Dichlorobenzene	1.37093	1.30259	1.27313	1.25409	1.33584	1.23455	AVRG		1.29519		3.98146
82 n-Butylbenzene	1.34977	1.36563	1.48836	1.56063	1.76838	1.55721	AVRG		1.51500		10.15682
83 1,2-Dichlorobenzene	1.24044	1.17817	1.14839	1.14513	1.22856	1.08659	AVRG		1.17121		4.90351
84 1,2-Dibromo-3-chloropropane	0.07480	0.07361	0.08447	0.08598	0.09880	0.09289	AVRG		0.08509		11.60923
85 1,2,4-Trichlorobenzene	0.72641	0.66276	0.68001	0.70365	0.80321	0.61224	AVRG		0.69804		9.24611
86 Hexachlorobutadiene	0.25893	0.24072	0.24888	0.25722	0.29836	0.22313	AVRG		0.25454		9.87036
87 Naphthalene	73756	154210	421801	1096394	2504927	+++++	WLINR	0.05241	1.83955		0.99011

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 Last Edit : 29-Dec-2010 12:18 3ux10.i

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
88 1,2,3-Trichlorobenzene	0.66613	0.61237	0.62450	0.65029	0.74070	0.54656	AVRG		0.64009		10.04314
89 Ethyl Ether	0.18741	0.18345	0.19163	0.18515	0.19289	0.18637	AVRG		0.18782		1.97524
90 Ethanol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
91 3-Chloropropene	0.10555	0.11270	0.12372	0.12004	0.12569	0.12674	AVRG		0.11907		7.01093
92 Isopropyl Ether	0.19748	0.20425	0.20923	0.20695	0.21930	0.21813	AVRG		0.20923		3.99031
93 2-Chloro-1,3-butadiene	0.32831	0.33462	0.34830	0.34629	0.35826	0.35950	AVRG		0.34588		3.61166
94 Propionitrile	0.02136	0.02432	0.02467	0.02364	0.02598	0.02748	AVRG		0.02458		8.48034
95 Ethyl Acetate	0.17003	0.15981	0.15806	0.15130	0.17276	0.17226	AVRG		0.16404		5.42084
96 Methacrylonitrile	0.11506	0.12636	0.12399	0.11560	0.12341	0.12406	AVRG		0.12142		3.97096
97 Isobutanol	0.00697	0.00790	0.00769	0.00720	0.00739	0.00712	AVRG		0.00738		4.82107 <-
98 Cyclohexane	0.30787	0.28573	0.32999	0.32164	0.37445	0.34833	AVRG		0.32800		9.45388
99 n-Butanol	0.00468	0.00527	0.00603	0.00585	0.00642	0.00628	AVRG		0.00575		11.55348 <-
100 Methyl Methacrylate	0.13904	0.14397	0.14455	0.13970	0.15465	0.15690	AVRG		0.14647		5.16837
101 2-Nitropropane	9445	20644	49870	112061	258138	604717	WLINR	0.10624	0.04532		0.99224
102 Chloropicrin	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
103 Cyclohexanone	0.01808	0.01711	0.01827	0.01827	0.01947	0.01916	AVRG		0.01839		4.55402
104 Pentachloroethane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
105 Benzyl Chloride	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
134 Thiophene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
135 Crotononitrile(1st Isomer)	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-

Report Date : 29-Dec-2010 12:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
138 Paraldehyde	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
139 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
140 1-Chlorohexane	0.23326	0.24673	0.26032	0.26964	0.30403	0.31055	AVRG		0.27075		11.42421
141 1,3,5-Trichlorobenzene	0.81881	0.75661	0.75941	0.76783	0.86631	0.68469	AVRG		0.77561		7.95687
143 Methyl Acetate	0.15622	0.14977	0.15215	0.15379	0.15779	0.15895	AVRG		0.15478		2.26720
144 Methylcyclohexane	0.28403	0.26673	0.30138	0.30645	0.36426	0.34816	AVRG		0.31184		12.01044
145 Dimethoxymethane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
146 2-Methylnaphthalene	0.33455	0.34164	0.34668	0.38420	0.38692	0.36032	AVRG		0.35905		6.18652
147 Tetrahydrothiophene	12324	26583	79833	190631	398388	878185	WLINR	0.05820	0.21454		0.99514
148 1,4-Dichlorobutane	0.38108	0.36767	0.38657	0.38918	0.42186	0.44454	AVRG		0.39848		7.22901
149 Vinyl Acetate-86	0.02631	0.02581	0.03066	0.03384	0.03483	0.03641	AVRG		0.03131		14.32317
150 1,3-Butadiene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
151 Ethyl Acrylate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
152 n-Heptane	0.04042	0.03307	0.03515	0.04522	0.04452	0.04869	AVRG		0.04118		14.83897
153 t-Butyl ethyl ether	0.63965	0.66003	0.68570	0.68153	0.71686	0.71163	AVRG		0.68257		4.33711
154 t-Amyl methyl ether	0.58724	0.62037	0.62795	0.62447	0.66322	0.65940	AVRG		0.63044		4.44304
155 1,2,3-Trimethylbenzene	1.66024	1.77538	1.79476	1.79618	1.95335	1.96473	AVRG		1.82411		6.36233
156 n-Butyl Acetate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
=====											
\$ 4 Dibromofluoromethane	0.20099	0.19533	0.19298	0.19712	0.19804	0.19913	AVRG		0.19726		1.43590
\$ 5 1,2-Dichloroethane-d4	0.24117	0.23347	0.21935	0.23543	0.23324	0.22274	AVRG		0.23090		3.56193
\$ 6 Toluene-d8	1.10092	1.06382	1.10604	1.09043	1.11815	1.08356	AVRG		1.09382		1.73866

Report Date : 29-Dec-2010 12:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\PO1229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients			%RSD
								b	m1	m2	or R^2

\$ 7 Bromofluorobenzene	0.38849	0.36163	0.37034	0.40593	0.39294	0.38474	AVRG		0.38401		4.14797

Report Date : 29-Dec-2010 12:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
End Cal Date : 29-DEC-2010 11:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Last Edit : 29-Dec-2010 12:18 a3ux10.i

Curve	Formula	Units
=====	=====	=====
Averaged	Amt = Rsp/ml	Response
Wt Linear	Amt = b + Rsp/ml	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Method (check the applicable box): ☒ 8260A ☒ 8260B ☐ 624

Analysis Date: 12-29-10 Run batch ID: 0364104

Curve ID: P01229 (curve ID must include instrument designation and date reference)

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

Item for review	Level I		Level II	
	Yes	No	Yes	No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs \leq 30% RSD	Yes		Yes	
Linear Regression curve fit for all $>15\%$ RSD (35% 624) $r^2 > 0.980$ ($r > 0.990$)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard	Yes		Yes	
Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-cave, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve				
Manual integrations: necessary, correct & documented	NA		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

Reviewed by Analyst/ Level I: [Signature] Date: 12-30-10

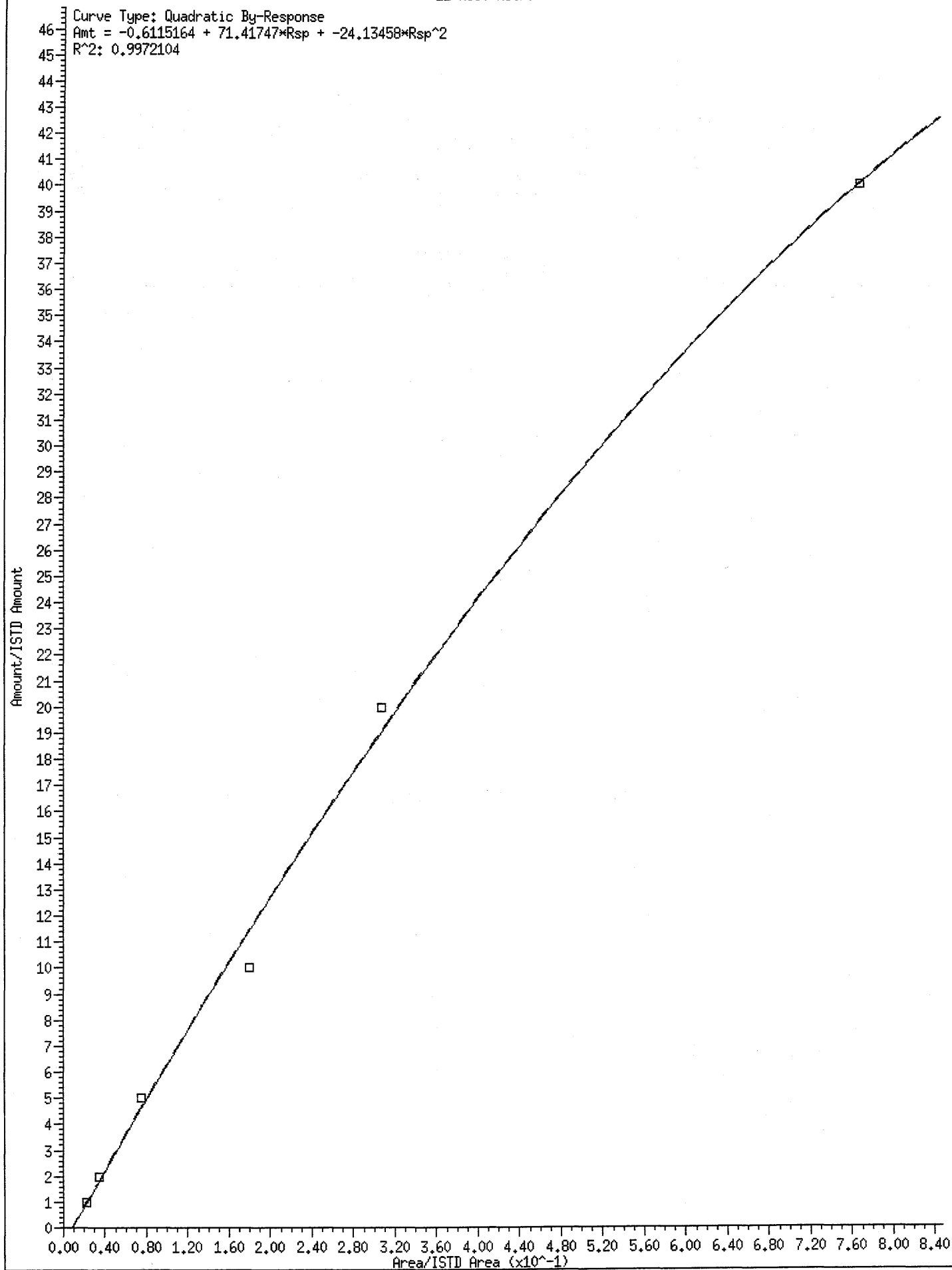
Reviewed by Peer/Sup/ Level II: [Signature] Date: 1-3-11

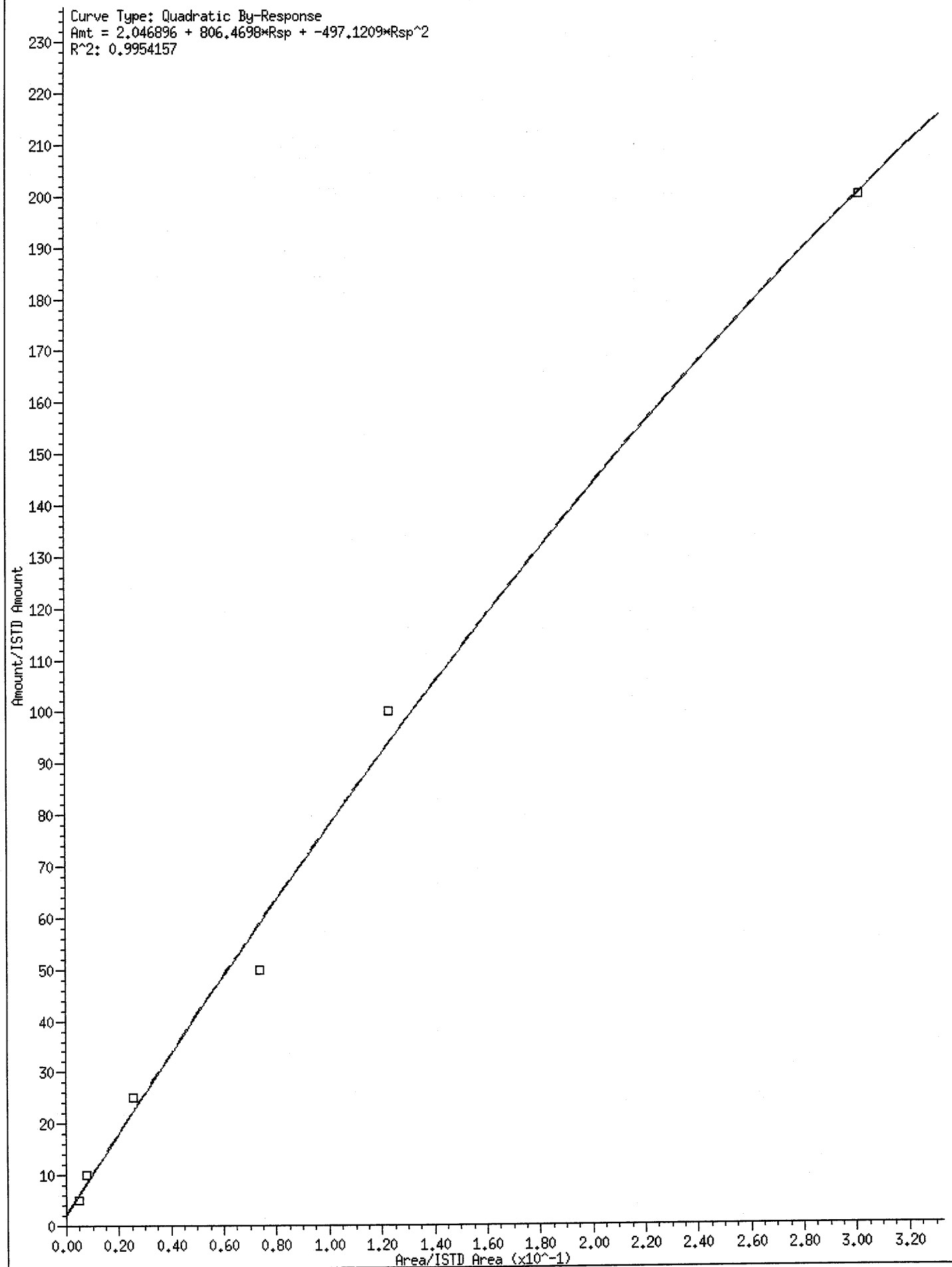
By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

Reviewed by Peer/Sup: _____ Date: _____

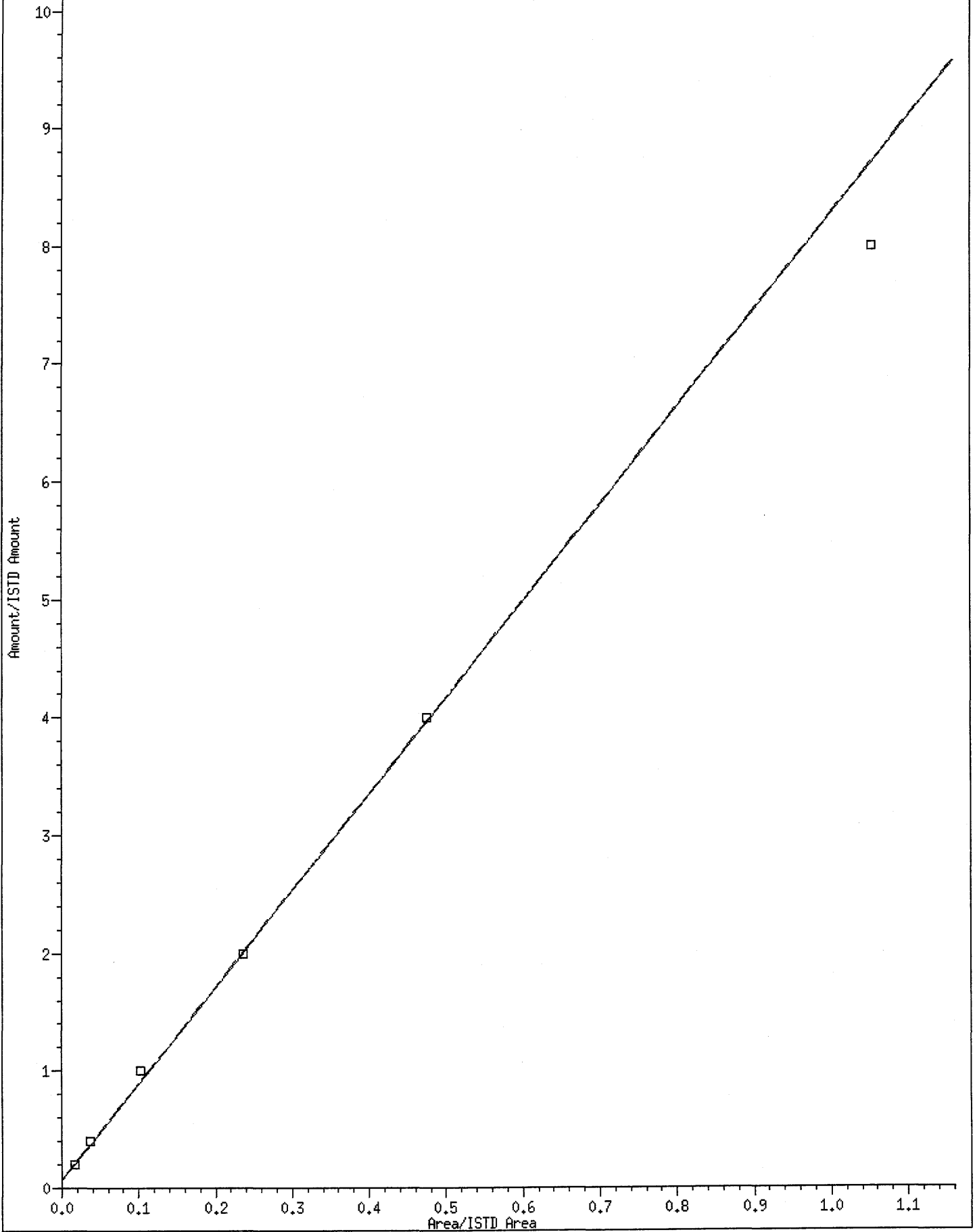
22 Acetonitrile



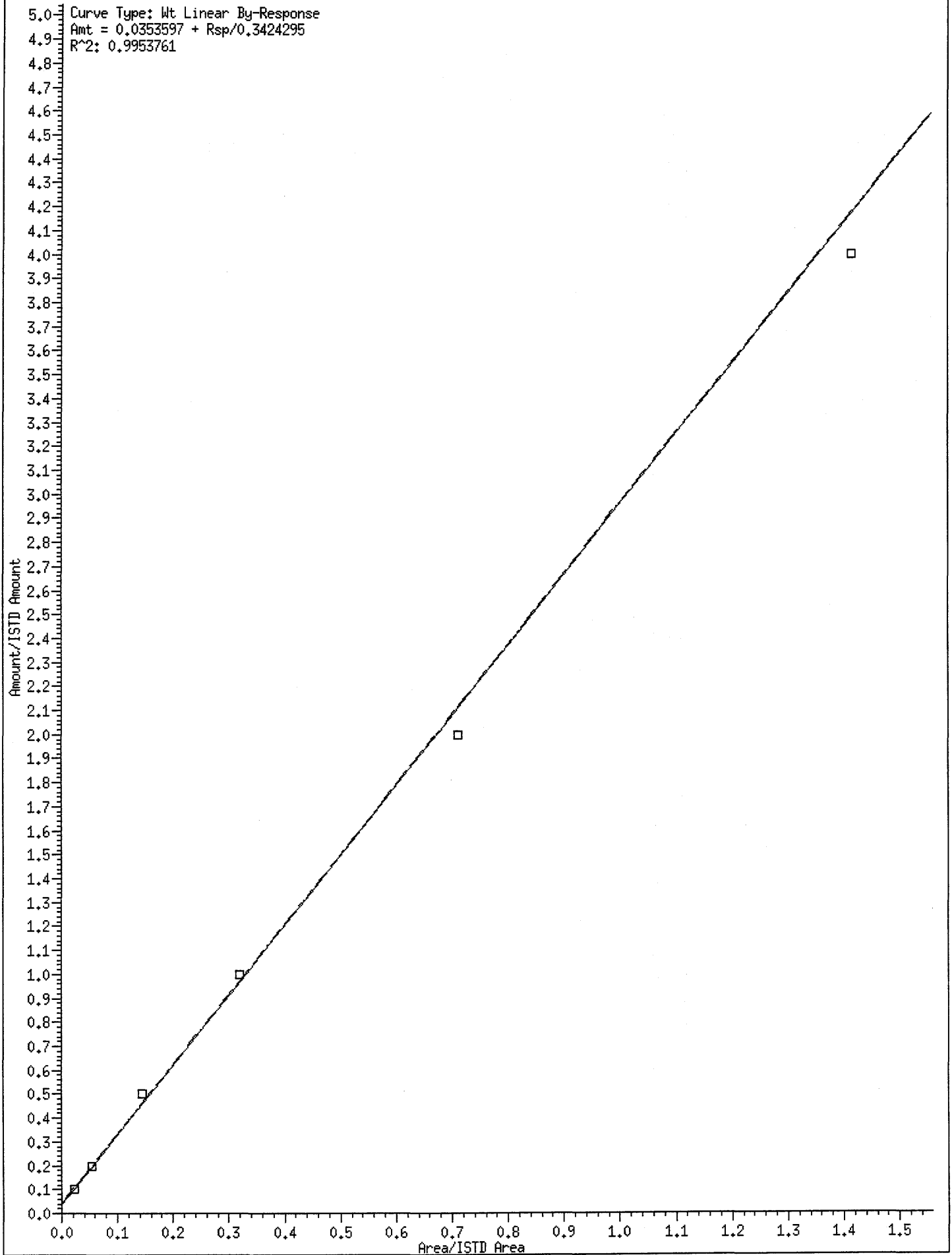


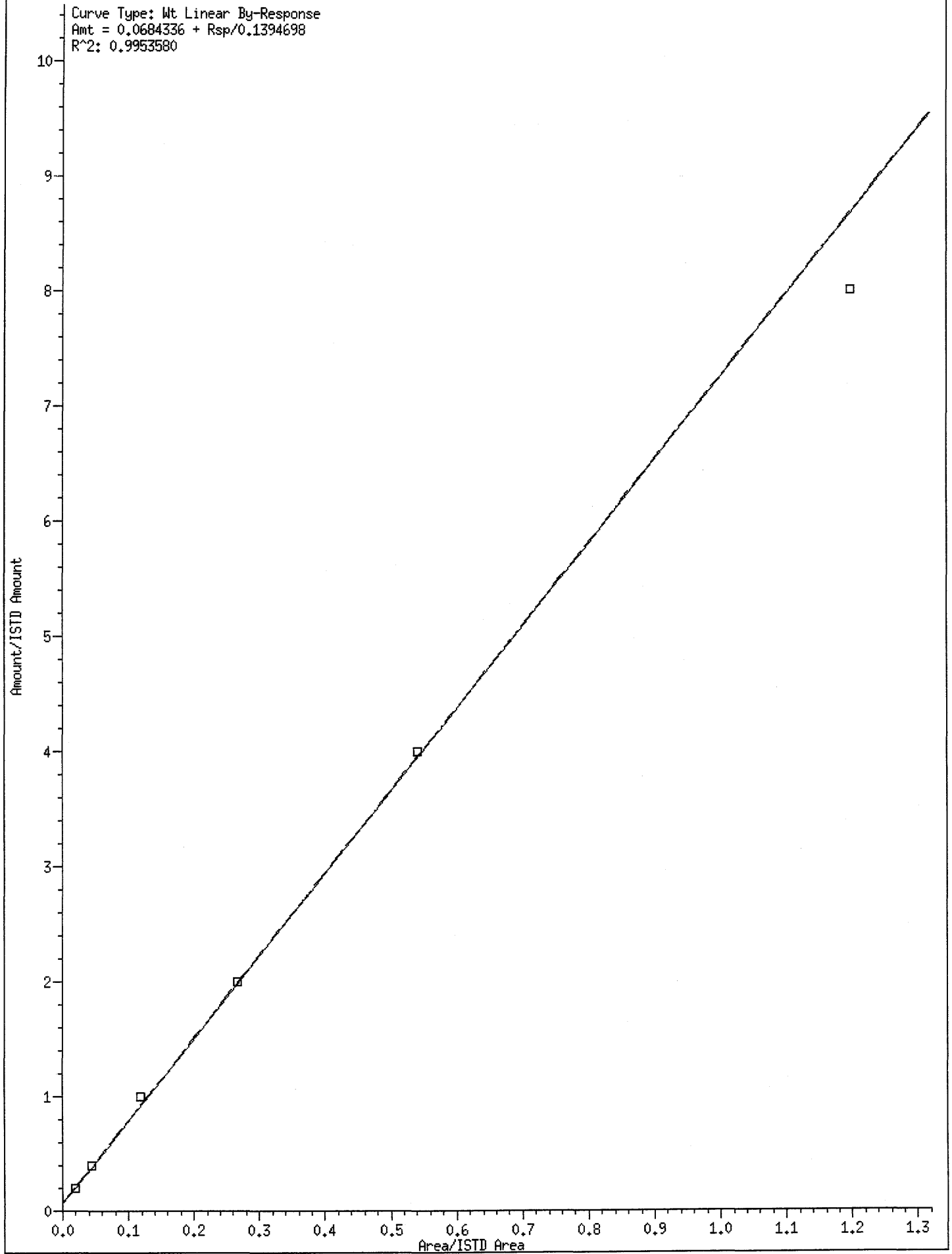
47 2-Chloroethyl vinyl ether

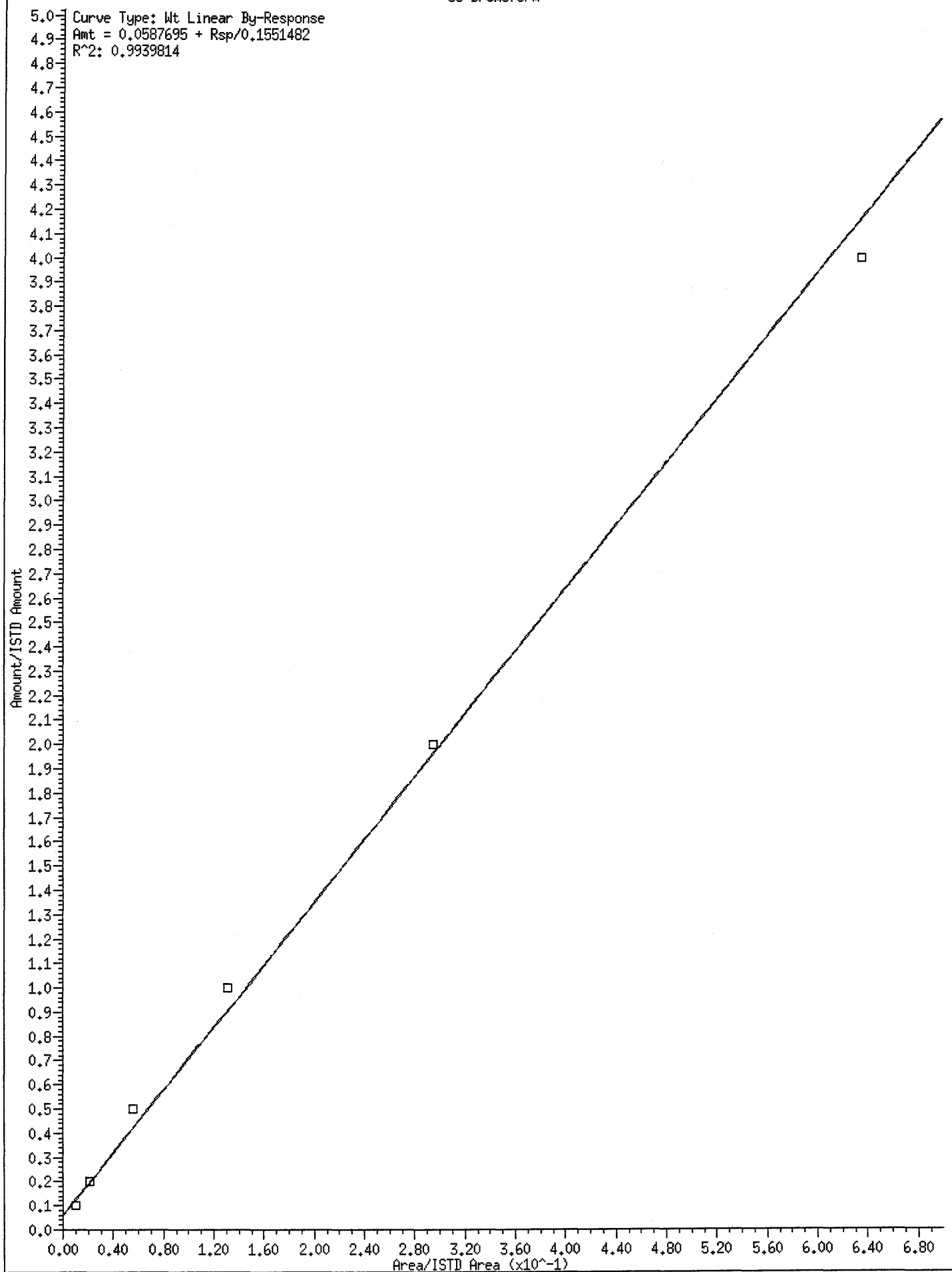
Curve Type: Wt Linear By-Response
Amt = 0.0684874 + Rsp/0.1221029
R²: 0.9929306

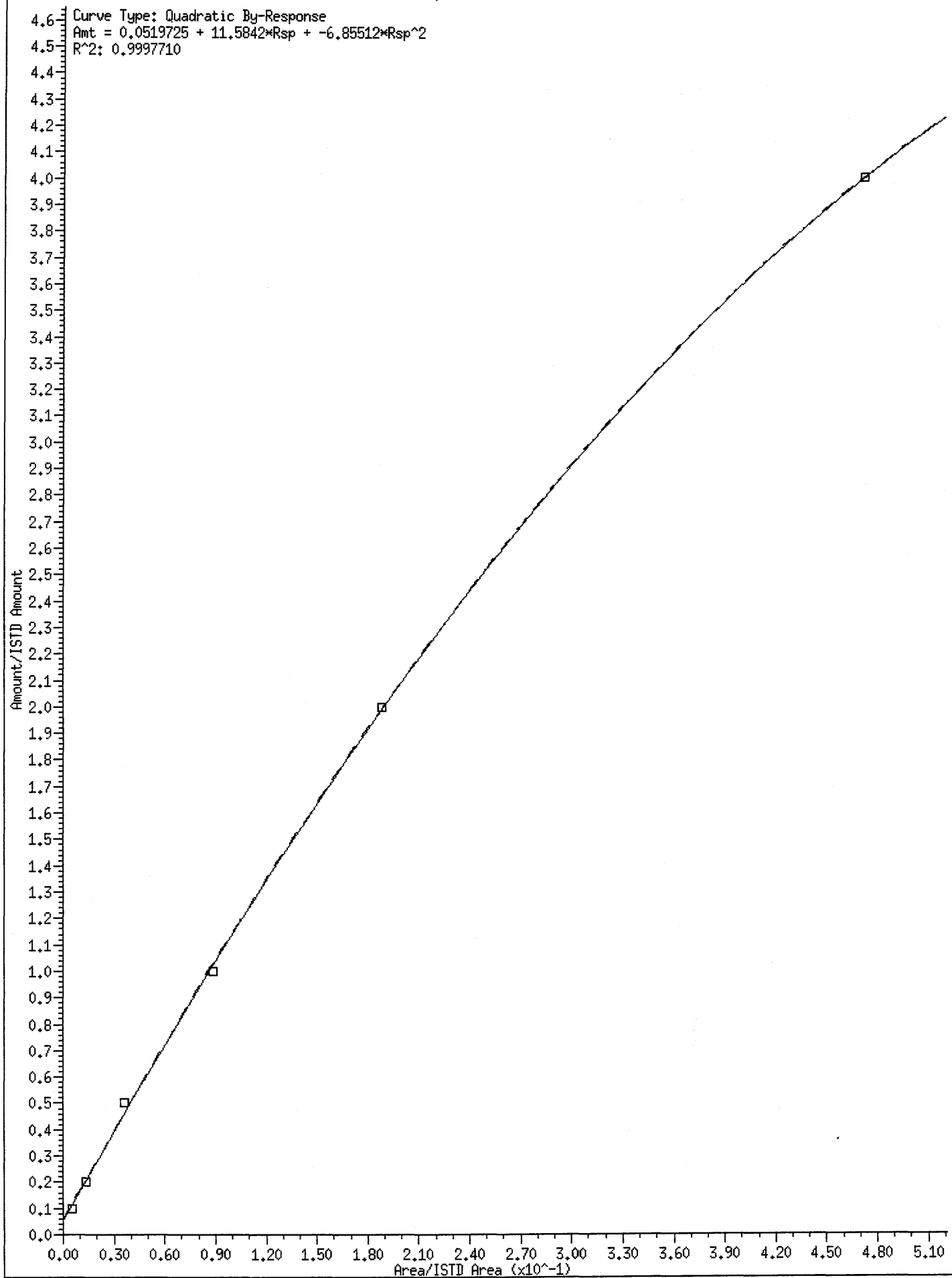


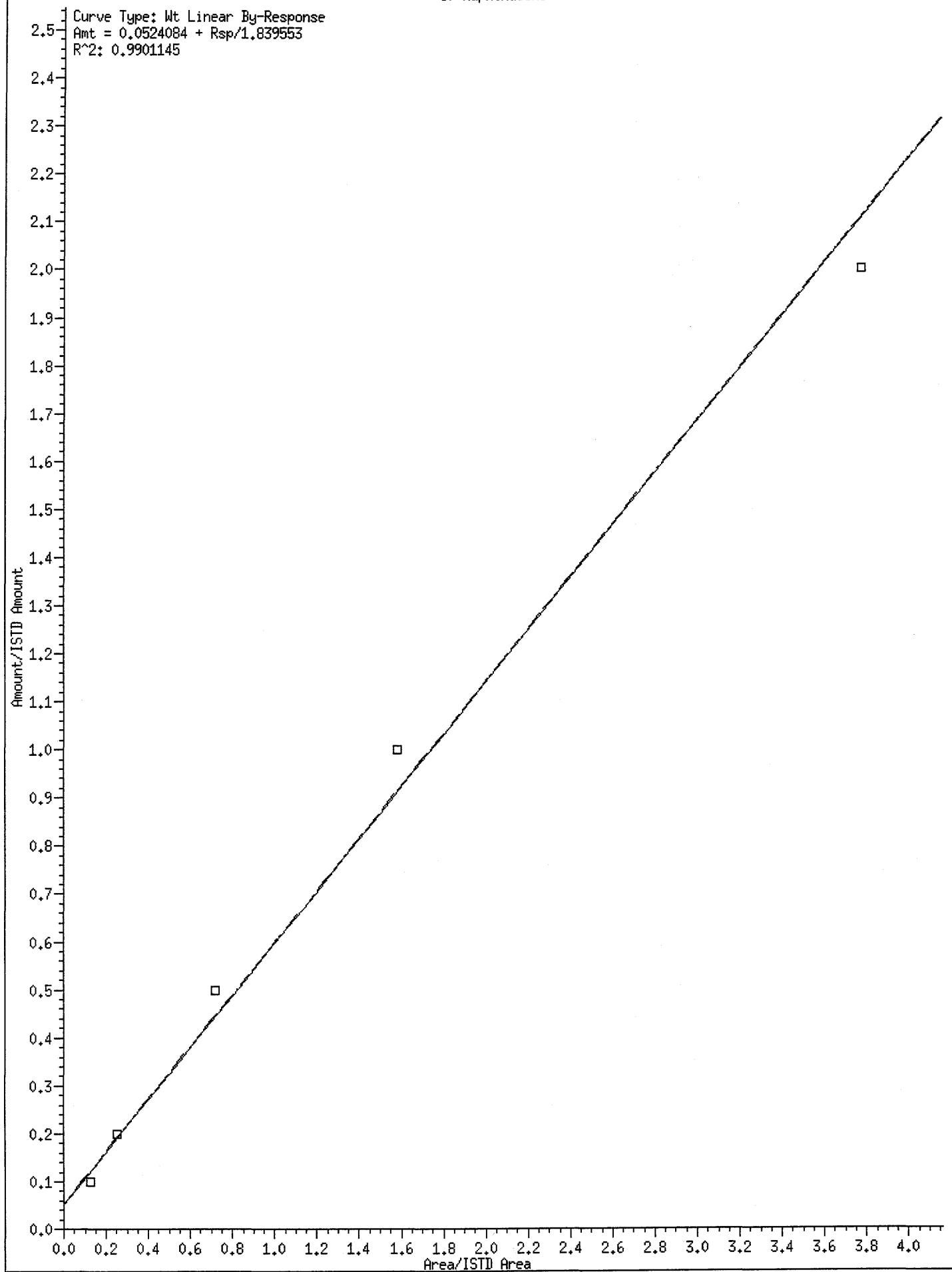
52 Ethyl Methacrylate











TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7801.D
Lab Smp Id: 200NG-IC
Inj Date : 29-DEC-2010 09:33
Operator : 1904
Smp Info : 200NG-IC
Misc Info : P01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 a3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	----	----	----	-----	-----	-----	-----	-----
* 1 Fluorobenzene	96	5.114	5.114	(1.000)	1704440	50.0000		
* 2 Chlorobenzene-d5	117	7.788	7.788	(1.000)	1311071	50.0000		
* 3 1,4-Dichlorobenzene-d4	152	10.036	10.036	(1.000)	654407	50.0000		
\$ 4 Dibromofluoromethane	113	4.534	4.534	(0.887)	1357592	200.000	191.26	
\$ 5 1,2-Dichloroethane-d4	65	4.818	4.818	(0.942)	1518558	200.000	163.83	
\$ 6 Toluene-d8	98	6.475	6.475	(0.831)	5682499	200.000	203.21	
\$ 7 Bromofluorobenzene	95	8.900	8.900	(1.143)	2017702	200.000	193.64	
8 Dichlorodifluoromethane	85	1.493	1.493	(0.292)	1229380	200.000	184.19	
9 Chloromethane	50	1.611	1.611	(0.315)	1387549	200.000	156.13	
10 Vinyl Chloride	62	1.706	1.706	(0.334)	1371526	200.000	166.28	
11 Bromomethane	94	1.990	1.990	(0.389)	608611	200.000	146.81	
12 Chloroethane	64	2.085	2.085	(0.408)	790627	200.000	157.72	
13 Trichlorofluoromethane	101	2.298	2.298	(0.449)	1182965	200.000	175.04	
15 Acrolein	56	2.605	2.605	(0.509)	2579597	2000.00	2082.0	
16 Acetone	43	2.724	2.724	(0.533)	810667	400.000	353.08	
17 1,1-Dichloroethene	96	2.712	2.712	(0.530)	1426066	200.000	197.17	
18 Freon-113	151	2.735	2.735	(0.535)	1008447	200.000	179.72	
19 Iodomethane	142	2.842	2.842	(0.556)	1979436	200.000	188.30	
20 Carbon Disulfide	76	2.913	2.913	(0.570)	3955925	200.000	212.14	
21 Methylene Chloride	84	3.090	3.090	(0.604)	1588540	200.000	180.78	
22 Acetonitrile	41	2.948	2.948	(0.577)	1312319	2000.00	2344.7	
23 Acrylonitrile	53	3.280	3.280	(0.641)	1102280	400.000	400.11	

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.327	3.327	(0.651)	4173293	200.000	179.94
25 trans-1,2-Dichloroethene	96	3.327	3.327	(0.651)	1609853	200.000	196.82
26 Hexane	86	3.564	3.564	(0.697)	331673	200.000	177.94
27 Vinyl acetate	43	3.694	3.694	(0.722)	2018192	200.000	177.82
28 1,1-Dichloroethane	63	3.670	3.670	(0.718)	2615205	200.000	192.26
29 tert-Butyl Alcohol	59	3.161	3.161	(0.618)	1729324	4000.00	4129.2
30 2-Butanone	43	4.143	4.143	(0.810)	1119004	400.000	341.34
32 cis-1,2-dichloroethene	96	4.143	4.143	(0.810)	1660874	200.000	192.77
33 2,2-Dichloropropane	77	4.155	4.155	(0.813)	1438780	200.000	175.61
34 Bromochloromethane	128	4.345	4.345	(0.850)	784195	200.000	187.89
35 Chloroform	83	4.404	4.404	(0.861)	2481357	200.000	188.00
36 Tetrahydrofuran	42	4.392	4.392	(0.859)	365532	200.000	159.26
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	1880985	200.000	179.78
38 1,1-Dichloropropene	75	4.711	4.711	(0.921)	1973384	200.000	185.79
39 Carbon Tetrachloride	117	4.723	4.723	(0.924)	1549088	200.000	186.14
40 1,2-Dichloroethane	62	4.889	4.889	(0.956)	1792911	200.000	169.62
41 Benzene	78	4.889	4.889	(0.956)	6296917	200.000	200.78
42 Trichloroethene	130	5.421	5.421	(1.060)	1589902	200.000	189.04
43 1,2-Dichloropropane	63	5.611	5.611	(1.097)	1464849	200.000	214.96
44 1,4-Dioxane	88	5.717	5.717	(1.118)	515438	10000.0	9914.0
45 Dibromomethane	93	5.705	5.705	(1.116)	821330	200.000	196.81
46 Bromodichloromethane	83	5.836	5.836	(1.141)	1751667	200.000	209.68
47 2-Chloroethyl vinyl ether	63	6.084	6.084	(1.190)	1798165	400.000	468.28
48 cis-1,3-Dichloropropene	75	6.226	6.226	(1.217)	2212924	200.000	223.80
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	2353017	400.000	376.41
50 Toluene	91	6.534	6.534	(0.839)	6760239	200.000	204.56
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	1928302	200.000	211.97
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	1857527	200.000	208.30
53 1,1,2-Trichloroethane	97	6.877	6.877	(0.883)	1246854	200.000	206.38
54 1,3-Dichloropropane	76	7.031	7.031	(0.903)	2264398	200.000	207.30
55 Tetrachloroethene	164	7.042	7.042	(0.904)	1331502	200.000	187.24
56 2-Hexanone	43	7.090	7.090	(0.910)	1573497	400.000	343.56
57 Dibromochloromethane	129	7.244	7.244	(0.930)	1323348	200.000	216.34
58 1,2-Dibromoethane	107	7.362	7.362	(0.945)	1250339	200.000	199.53
59 Chlorobenzene	112	7.823	7.823	(1.005)	4343782	200.000	198.52
60 1,1,1,2-Tetrachloroethane	131	7.894	7.894	(1.014)	1433396	200.000	199.55
61 Ethylbenzene	106	7.918	7.918	(1.017)	2363296	200.000	199.48
62 m + p-Xylene	106	8.025	8.025	(1.030)	5898403	400.000	400.72
64 Xylene-o	106	8.403	8.403	(1.079)	2807438	200.000	194.85
65 Styrene	104	8.415	8.415	(1.081)	4643917	200.000	203.19
66 Bromoform	173	8.593	8.593	(1.103)	833873	200.000	213.69
67 Isopropylbenzene	105	8.758	8.758	(1.125)	7091007	200.000	195.90
68 1,1,2,2-Tetrachloroethane	83	9.019	9.019	(0.899)	1543005	200.000	217.84
69 1,4-Dichloro-2-butene	53	9.078	9.078	(0.905)	309881	200.000	165.64
70 1,2,3-Trichloropropane	110	9.066	9.066	(0.903)	494020	200.000	194.91
71 Bromobenzene	156	9.054	9.054	(0.902)	1828752	200.000	205.93
72 n-Propylbenzene	120	9.161	9.161	(0.913)	1892040	200.000	211.01
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	1657941	200.000	206.70
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	5526897	200.000	214.85
75 4-Chlorotoluene	126	9.350	9.350	(0.932)	1752239	200.000	206.90
76 tert-Butylbenzene	119	9.646	9.646	(0.961)	4663005	200.000	203.28
77 1,2,4-Trimethylbenzene	105	9.693	9.693	(0.966)	5560744	200.000	214.53
78 sec-Butylbenzene	105	9.871	9.871	(0.983)	6179247	200.000	210.38
79 4-Isopropyltoluene	119	10.013	10.013	(0.998)	5243092	200.000	211.44

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
80 1,3-Dichlorobenzene	146	9.977	9.977	(0.994)	3148144	200.000	201.60
81 1,4-Dichlorobenzene	146	10.060	10.060	(1.002)	3231587	200.000	196.21
82 n-Butylbenzene	91	10.415	10.415	(1.038)	4076208	200.000	209.46
83 1,2-Dichlorobenzene	146	10.427	10.427	(1.039)	2844282	200.000	199.44
84 1,2-Dibromo-3-chloropropane	157	11.196	11.196	(1.116)	243157	200.000	234.33
85 1,2,4-Trichlorobenzene	180	12.036	12.036	(1.199)	1602622	200.000	202.88
86 Hexachlorobutadiene	225	12.225	12.225	(1.218)	584074	200.000	189.49
87 Naphthalene	128	12.284	12.284	(1.224)	3836125	200.000	223.29
88 1,2,3-Trichlorobenzene	180	12.533	12.533	(1.249)	1430697	200.000	210.90
98 Cyclohexane	56	4.640	4.640	(0.907)	2374837	200.000	184.48
143 Methyl Acetate	43	3.007	3.007	(0.588)	2167315	400.000	351.09
144 Methylcyclohexane	83	5.611	5.611	(1.097)	2373685	200.000	186.09
141 1,3,5-Trichlorobenzene	180	11.421	11.421	(1.138)	1792253	200.000	198.99
149 Vinyl Acetate-86	86	3.694	3.694	(0.722)	248229	200.000	196.23

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7801.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7801.D
 Lab Smp Id: 200NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 23-NOV-2010
 Calibration Time: 22:09

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,6

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1704440	852220	3408880	1704440	0.00
2 Chlorobenzene-d5	1311071	655536	2622142	1311071	0.00
3 1,4-Dichlorobenze	654407	327204	1308814	654407	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\3ux10.i\PO1229A-IC.b\UXX7801.D

Date : 29-DEC-2010 09:33

Client ID:

Sample Info: 200NG-IC

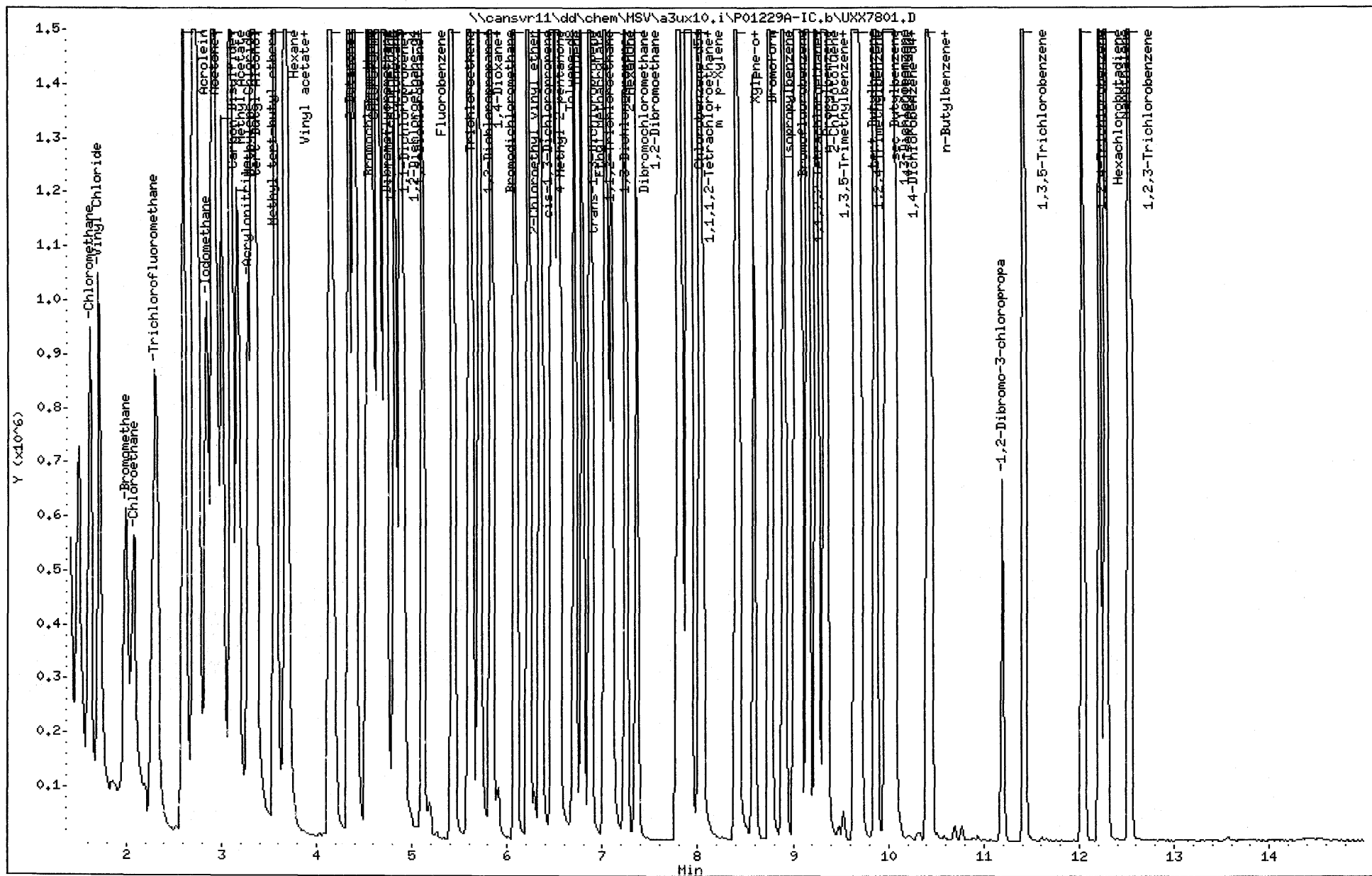
Purge Volume: 5.0

Column phase: DB624

Instrument: a3ux10.i

Operator: 1904

Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7802.D
Lab Smp Id: 100NG-IC
Inj Date : 29-DEC-2010 09:55
Operator : 1904 Inst ID: a3ux10.i
Smp Info : 100NG-IC
Misc Info : P01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 a3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 21:26 Cal File: UXX6621.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	----	----	----	-----	-----	-----	-----	-----
* 1 Fluorobenzene	96		5.113	5.113	(1.000)	1672927	50.0000	
* 2 Chlorobenzene-d5	117		7.787	7.787	(1.000)	1229245	50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.036	10.036	(1.000)	662148	50.0000	
\$ 4 Dibromofluoromethane	113		4.533	4.533	(0.887)	662600	100.000	95.817
\$ 5 1,2-Dichloroethane-d4	65		4.817	4.817	(0.942)	780401	100.000	88.269
\$ 6 Toluene-d8	98		6.474	6.474	(0.831)	2748953	100.000	105.16
\$ 7 Bromofluorobenzene	95		8.900	8.900	(1.143)	966051	100.000	99.030
8 Dichlorodifluoromethane	85		1.492	1.492	(0.292)	602664	100.000	92.215
9 Chloromethane	50		1.611	1.611	(0.315)	792652	100.000	93.383
10 Vinyl Chloride	62		1.705	1.705	(0.334)	736381	100.000	92.975
11 Bromomethane	94		1.989	1.989	(0.389)	377435	100.000	96.133
12 Chloroethane	64		2.072	2.072	(0.405)	456675	100.000	95.241
13 Trichlorofluoromethane	101		2.297	2.297	(0.449)	700759	100.000	107.28
15 Acrolein	56		2.605	2.605	(0.509)	1015639	1000.00	823.86
16 Acetone	43		2.723	2.723	(0.533)	361656	200.000	159.58
17 1,1-Dichloroethene	96		2.711	2.711	(0.530)	689676	100.000	97.202
18 Freon-113	151		2.735	2.735	(0.535)	526596	100.000	97.251
19 Iodomethane	142		2.841	2.841	(0.556)	1109605	100.000	107.90
20 Carbon Disulfide	76		2.912	2.912	(0.570)	2046091	100.000	111.01
21 Methylene Chloride	84		3.102	3.102	(0.607)	858355	100.000	98.926
22 Acetonitrile	41		2.948	2.948	(0.577)	515543	1000.00	895.55
23 Acrylonitrile	53		3.279	3.279	(0.641)	516309	200.000	189.45

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL ( ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.338	3.338	(0.653)	2135413	100.000	95.092
25 trans-1,2-Dichloroethene	96	3.338	3.338	(0.653)	843205	100.000	104.82
26 Hexane	86	3.563	3.563	(0.697)	169694	100.000	94.644
27 Vinyl acetate	43	3.705	3.705	(0.725)	941170	100.000	86.726
28 1,1-Dichloroethane	63	3.670	3.670	(0.718)	1351644	100.000	101.58
29 tert-Butyl Alcohol	59	3.173	3.173	(0.621)	735134	2000.00	1734.3
30 2-Butanone	43	4.143	4.143	(0.810)	500787	200.000	156.95
32 cis-1,2-dichloroethene	96	4.155	4.155	(0.813)	857856	100.000	101.48
33 2,2-Dichloropropane	77	4.155	4.155	(0.813)	794035	100.000	100.22
34 Bromochloromethane	128	4.344	4.344	(0.850)	400210	100.000	98.358
35 Chloroform	83	4.403	4.403	(0.861)	1274530	100.000	99.060
36 Tetrahydrofuran	42	4.391	4.391	(0.859)	174471	100.000	78.186
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	1008087	100.000	99.660
38 1,1-Dichloropropene	75	4.711	4.711	(0.921)	1007619	100.000	97.767
39 Carbon Tetrachloride	117	4.723	4.723	(0.924)	797908	100.000	99.761
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	912483	100.000	90.130
41 Benzene	78	4.888	4.888	(0.956)	3191083	100.000	103.57
42 Trichloroethene	130	5.433	5.433	(1.062)	812376	100.000	99.471
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	738022	100.000	109.67
44 1,4-Dioxane	88	5.717	5.717	(1.118)	206603	5000.00	4028.6
45 Dibromomethane	93	5.705	5.705	(1.116)	408982	100.000	100.33
46 Bromodichloromethane	83	5.835	5.835	(1.141)	856952	100.000	105.54
47 2-Chloroethyl vinyl ether	63	6.084	6.084	(1.190)	795739	200.000	209.37
48 cis-1,3-Dichloropropene	75	6.226	6.226	(1.218)	1076491	100.000	111.32
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	1044613	200.000	172.03
50 Toluene	91	6.533	6.533	(0.839)	3381175	100.000	109.39
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	905121	100.000	107.59
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	875243	100.000	105.50
53 1,1,2-Trichloroethane	97	6.876	6.876	(0.883)	617221	100.000	108.92
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	1113957	100.000	108.42
55 Tetrachloroethene	164	7.042	7.042	(0.904)	677131	100.000	102.92
56 2-Hexanone	43	7.101	7.101	(0.912)	665882	200.000	157.92
57 Dibromochloromethane	129	7.243	7.243	(0.930)	611588	100.000	108.00
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	604338	100.000	103.42
59 Chlorobenzene	112	7.823	7.823	(1.005)	2152377	100.000	105.17
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	721606	100.000	108.17
61 Ethylbenzene	106	7.918	7.918	(1.017)	1175114	100.000	105.88
62 m + p-Xylene	106	8.024	8.024	(1.030)	2984334	200.000	217.13
64 Xylene-o	106	8.403	8.403	(1.079)	1461002	100.000	108.52
65 Styrene	104	8.415	8.415	(1.081)	2319278	100.000	108.98
66 Bromoform	173	8.592	8.592	(1.103)	362624	100.000	101.30
67 Isopropylbenzene	105	8.758	8.758	(1.125)	3673470	100.000	108.55
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	774390	100.000	106.44
69 1,4-Dichloro-2-butene	53	9.077	9.077	(0.905)	124933	100.000	69.542
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	242863	100.000	94.840
71 Bromobenzene	156	9.054	9.054	(0.902)	917495	100.000	102.24
72 n-Propylbenzene	120	9.160	9.160	(0.913)	987015	100.000	108.88
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	869518	100.000	106.90
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	2982704	100.000	113.72
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	903681	100.000	105.40
76 tert-Butylbenzene	119	9.645	9.645	(0.961)	2539500	100.000	109.22
77 1,2,4-Trimethylbenzene	105	9.693	9.693	(0.966)	3027129	100.000	114.44
78 sec-Butylbenzene	105	9.870	9.870	(0.983)	3428811	100.000	114.67
79 4-Isopropyltoluene	119	10.012	10.012	(0.998)	2926621	100.000	116.16

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====		=====	=====
80 1,3-Dichlorobenzene	146	9.977	9.977	(0.994)	1704404		100.000	107.65
81 1,4-Dichlorobenzene	146	10.059	10.059	(1.002)	1769041		100.000	106.30
82 n-Butylbenzene	91	10.414	10.414	(1.038)	2341856		100.000	118.76
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	1626974		100.000	112.55
84 1,2-Dibromo-3-chloropropane	157	11.195	11.195	(1.116)	130846		100.000	123.28
85 1,2,4-Trichlorobenzene	180	12.035	12.035	(1.199)	1063687		100.000	135.18
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	395118		100.000	131.17
87 Naphthalene	128	12.284	12.284	(1.224)	2504927		100.000	144.21
88 1,2,3-Trichlorobenzene	180	12.532	12.532	(1.249)	980902		100.000	144.03
98 Cyclohexane	56	4.652	4.652	(0.910)	1252866		100.000	100.27
143 Methyl Acetate	43	3.007	3.007	(0.588)	1055909		200.000	175.19
144 Methylcyclohexane	83	5.610	5.610	(1.097)	1218764		100.000	98.400
141 1,3,5-Trichlorobenzene	180	11.420	11.420	(1.138)	1147248		100.000	127.89
149 Vinyl Acetate-86	86	3.705	3.705	(0.725)	116537		100.000	95.441

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7802.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 23-NOV-2010
 Lab File ID: UXX7802.D Calibration Time: 21:26
 Lab Smp Id: 100NG-IC
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1672927	836464	3345854	1672927	0.00
2 Chlorobenzene-d5	1229245	614623	2458490	1229245	0.00
3 1,4-Dichlorobenze	662148	331074	1324296	662148	0.00

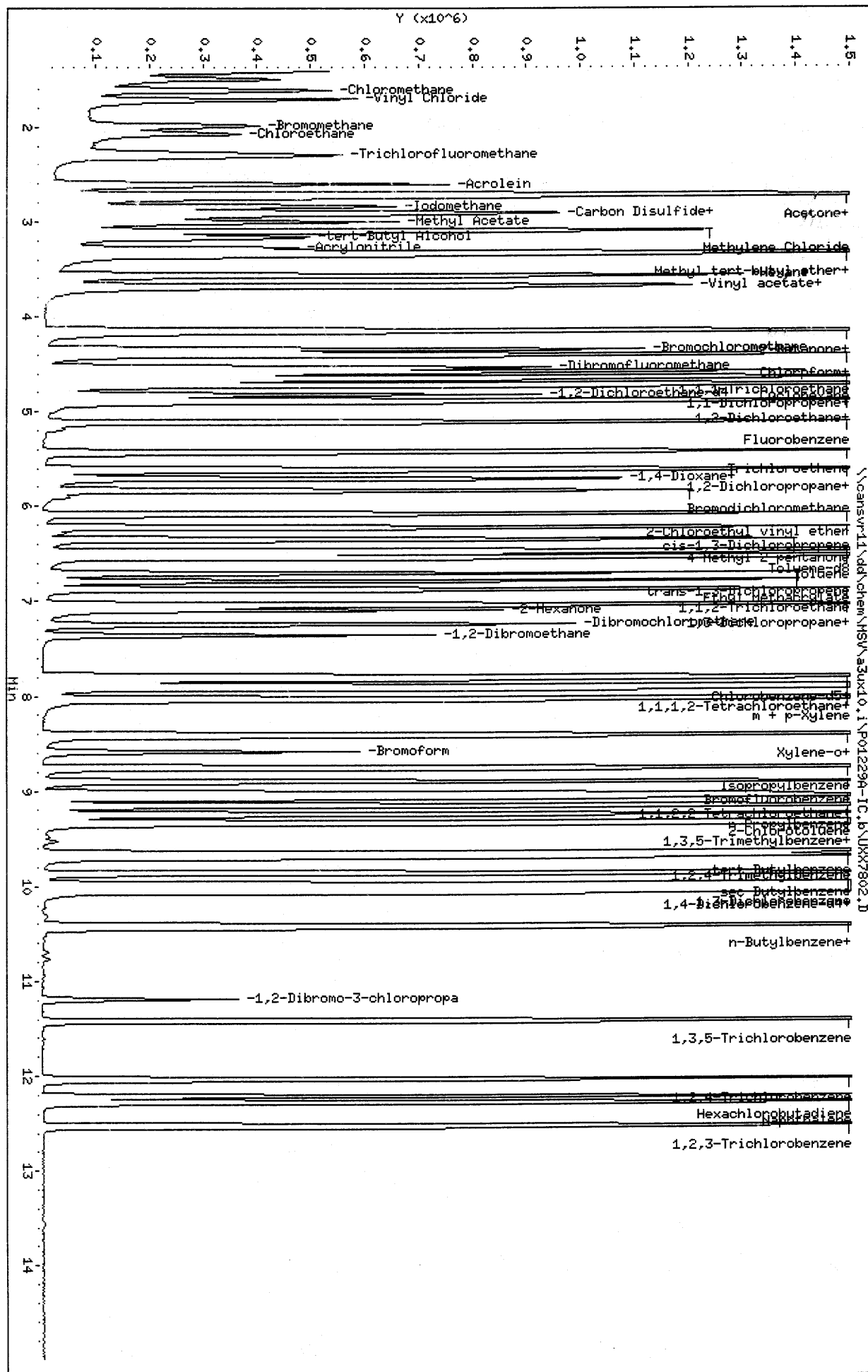
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\POL229A-IC.b\UXX7802.D
 Date : 29-DEC-2010 09:55

Client ID:
 Sample Info: 100MG-IC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\01229A-IC.b\UXX7803.D
Lab Smp Id: 50NG-IC
Inj Date : 29-DEC-2010 10:17
Operator : 1904
Smp Info : 50NG-IC
Misc Info : 01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 4
Comment :
Method : \\cansvr11\dd\chem\MSV\3ux10.i\01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 21:47 Cal File: UXX6622.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====		----	----	-----	-----	-----	-----	-----
*	1 Fluorobenzene	96	5.114	5.114	(1.000)	1665231	50.0000	
*	2 Chlorobenzene-d5	117	7.788	7.788	(1.000)	1259516	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.036	10.036	(1.000)	691398	50.0000	
\$	4 Dibromofluoromethane	113	4.534	4.534	(0.887)	328253	50.0000	48.277
\$	5 1,2-Dichloroethane-d4	65	4.818	4.818	(0.942)	392045	50.0000	45.741
\$	6 Toluene-d8	98	6.474	6.474	(0.831)	1373414	50.0000	51.089
\$	7 Bromofluorobenzene	95	8.900	8.900	(1.143)	511276	50.0000	51.416
	8 Dichlorodifluoromethane	85	1.493	1.493	(0.292)	257933	50.0000	40.124
	9 Chloromethane	50	1.611	1.611	(0.315)	382205	50.0000	45.570
10	Vinyl Chloride	62	1.706	1.706	(0.334)	359099	50.0000	45.994
11	Bromomethane	94	1.990	1.990	(0.389)	169560	50.0000	43.312
12	Chloroethane	64	2.072	2.072	(0.405)	209199	50.0000	44.090
13	Trichlorofluoromethane	101	2.297	2.297	(0.449)	298349	50.0000	44.846
15	Acrolein	56	2.605	2.605	(0.509)	587923	500.000	494.69
16	Acetone	43	2.723	2.723	(0.533)	192752	100.000	87.272
17	1,1-Dichloroethene	96	2.711	2.711	(0.530)	348802	50.0000	49.691
18	Freon-113	151	2.735	2.735	(0.535)	233624	50.0000	43.550
19	Iodomethane	142	2.842	2.842	(0.556)	502749	50.0000	48.343
20	Carbon Disulfide	76	2.913	2.913	(0.570)	954452	50.0000	51.096
21	Methylene Chloride	84	3.090	3.090	(0.604)	396093	50.0000	45.204
22	Acetonitrile	41	2.948	2.948	(0.577)	299435	500.000	522.72
23	Acrylonitrile	53	3.279	3.279	(0.641)	258574	100.000	96.671

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng)	(ng)
24 Methyl tert-butyl ether	73	3.339	3.339	(0.653)	982710	50.0000	44.756	
25 trans-1,2-Dichloroethene	96	3.327	3.327	(0.651)	392979	50.0000	46.828	
26 Hexane	86	3.563	3.563	(0.697)	72276	50.0000	40.941	
27 Vinyl acetate	43	3.694	3.694	(0.722)	446256	50.0000	42.682	
28 1,1-Dichloroethane	63	3.670	3.670	(0.718)	630672	50.0000	47.765	
29 tert-Butyl Alcohol	59	3.161	3.161	(0.618)	378669	1000.00	912.27	
30 2-Butanone	43	4.143	4.143	(0.810)	262672	100.000	85.173	
32 cis-1,2-dichloroethene	96	4.143	4.143	(0.810)	401514	50.0000	47.671	
33 2,2-Dichloropropane	77	4.155	4.155	(0.813)	350787	50.0000	44.878	
34 Bromochloromethane	128	4.344	4.344	(0.850)	190877	50.0000	47.523	
35 Chloroform	83	4.404	4.404	(0.861)	598423	50.0000	47.100	
36 Tetrahydrofuran	42	4.392	4.392	(0.859)	85519	50.0000	39.661	
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	456372	50.0000	45.660	
38 1,1-Dichloropropene	75	4.711	4.711	(0.921)	474371	50.0000	46.673	
39 Carbon Tetrachloride	117	4.723	4.723	(0.924)	353954	50.0000	45.172	
40 1,2-Dichloroethane	62	4.889	4.889	(0.956)	432942	50.0000	44.108	
41 Benzene	78	4.889	4.889	(0.956)	1523740	50.0000	49.554	
42 Trichloroethene	130	5.421	5.421	(1.060)	387428	50.0000	48.046	
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	349223	50.0000	51.589	
44 1,4-Dioxane	88	5.717	5.717	(1.118)	123307	2500.00	2513.5	
45 Dibromomethane	93	5.705	5.705	(1.116)	196040	50.0000	48.715	
46 Bromodichloromethane	83	5.835	5.835	(1.141)	396700	50.0000	49.465	
47 2-Chloroethyl vinyl ether	63	6.084	6.084	(1.190)	394371	100.000	104.06	
48 cis-1,3-Dichloropropene	75	6.226	6.226	(1.217)	498582	50.0000	51.614	
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	516928	100.000	88.295	
50 Toluene	91	6.533	6.533	(0.839)	1610299	50.0000	50.402	
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	416753	50.0000	48.753	
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	402237	50.0000	47.632	
53 1,1,2-Trichloroethane	97	6.877	6.877	(0.883)	298028	50.0000	50.888	
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	539049	50.0000	50.769	
55 Tetrachloroethene	164	7.042	7.042	(0.904)	321062	50.0000	47.693	
56 2-Hexanone	43	7.090	7.090	(0.910)	336229	100.000	81.483	
57 Dibromochloromethane	129	7.243	7.243	(0.930)	282364	50.0000	49.256	
58 1,2-Dibromoethane	107	7.362	7.362	(0.945)	296696	50.0000	49.778	
59 Chlorobenzene	112	7.823	7.823	(1.005)	1049171	50.0000	49.868	
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	332478	50.0000	48.912	
61 Ethylbenzene	106	7.918	7.918	(1.017)	560049	50.0000	48.979	
62 m + p-Xylene	106	8.024	8.024	(1.030)	1423314	100.000	100.46	
64 Xylene-o	106	8.403	8.403	(1.079)	685876	50.0000	49.462	
65 Styrene	104	8.415	8.415	(1.081)	1094529	50.0000	50.114	
66 Bromoform	173	8.592	8.592	(1.103)	165135	50.0000	46.570	
67 Isopropylbenzene	105	8.758	8.758	(1.125)	1725984	50.0000	49.587	
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	378147	50.0000	49.471	
69 1,4-Dichloro-2-butene	53	9.078	9.078	(0.905)	61383	50.0000	35.666	
70 1,2,3-Trichloropropane	110	9.066	9.066	(0.903)	122719	50.0000	46.504	
71 Bromobenzene	156	9.054	9.054	(0.902)	444140	50.0000	47.432	
72 n-Propylbenzene	120	9.160	9.160	(0.913)	464616	50.0000	48.740	
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	421424	50.0000	49.207	
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	1423559	50.0000	51.135	
75 4-Chlorotoluene	126	9.350	9.350	(0.932)	441783	50.0000	49.140	
76 tert-Butylbenzene	119	9.645	9.645	(0.961)	1205615	50.0000	49.228	
77 1,2,4-Trimethylbenzene	105	9.693	9.693	(0.966)	1441127	50.0000	51.283	
78 sec-Butylbenzene	105	9.870	9.870	(0.983)	1612078	50.0000	50.624	
79 4-Isopropyltoluene	119	10.012	10.012	(0.998)	1386443	50.0000	51.690	

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====		=====	=====
80 1,3-Dichlorobenzene	146	9.977	9.977	(0.994)	836352		50.0000	50.083
81 1,4-Dichlorobenzene	146	10.060	10.060	(1.002)	867078		50.0000	49.437
82 n-Butylbenzene	91	10.415	10.415	(1.038)	1079017		50.0000	51.205
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	791738		50.0000	51.498
84 1,2-Dibromo-3-chloropropane	157	11.196	11.196	(1.116)	59448		50.0000	52.617
85 1,2,4-Trichlorobenzene	180	12.036	12.036	(1.199)	486501		50.0000	56.008
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	177840		50.0000	53.656
87 Naphthalene	128	12.284	12.284	(1.224)	1096394		50.0000	56.763
88 1,2,3-Trichlorobenzene	180	12.533	12.533	(1.249)	449610		50.0000	58.953
98 Cyclohexane	56	4.640	4.640	(0.907)	535606		50.0000	43.170
143 Methyl Acetate	43	3.007	3.007	(0.588)	512191		100.000	86.870
144 Methylcyclohexane	83	5.610	5.610	(1.097)	510318		50.0000	41.651
141 1,3,5-Trichlorobenzene	180	11.420	11.420	(1.138)	530878		50.0000	54.286
149 Vinyl Acetate-86	86	3.694	3.694	(0.722)	56348		50.0000	47.403

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7803.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7803.D
 Lab Smp Id: 50NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,4

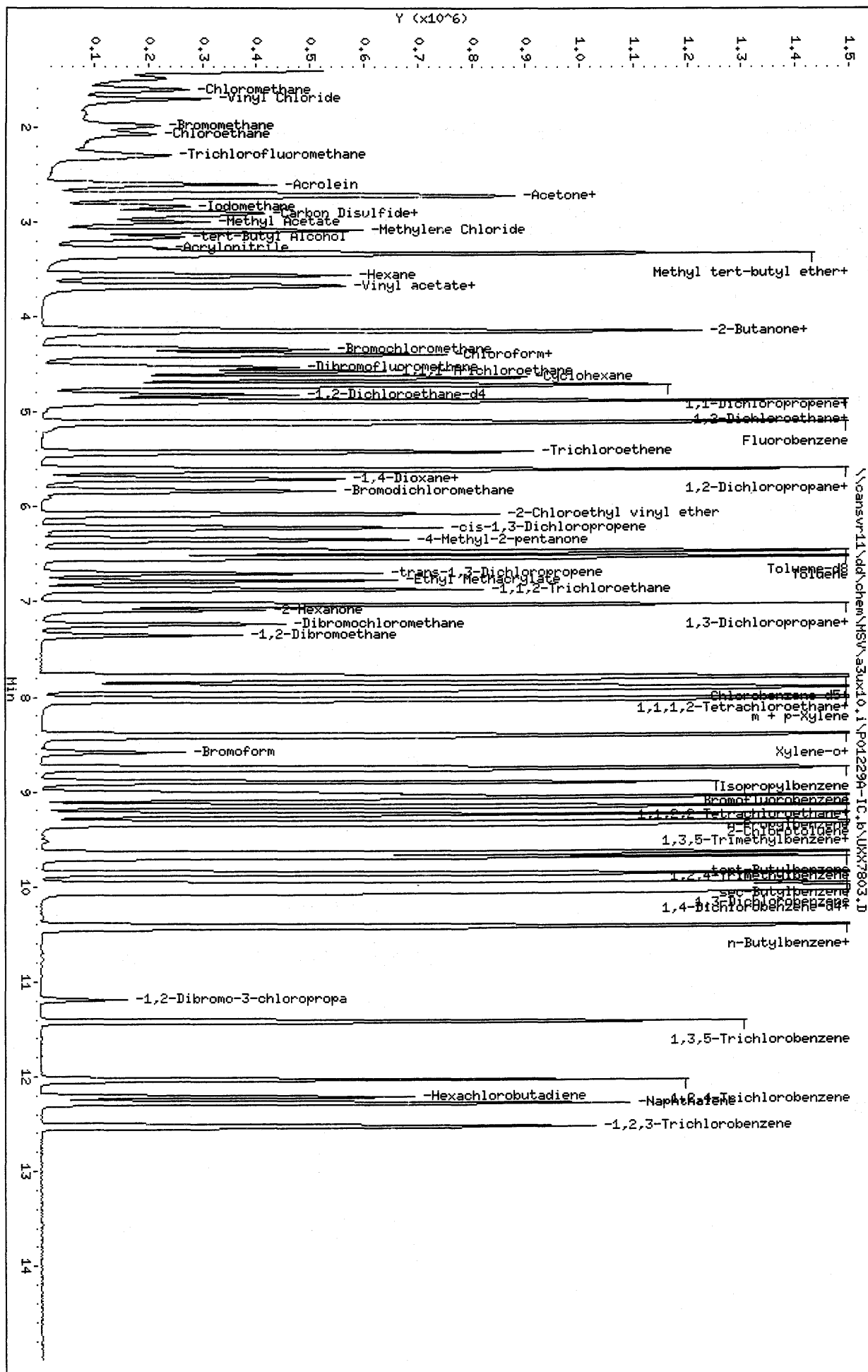
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1665231	0.00
2 Chlorobenzene-d5	1259516	629758	2519032	1259516	0.00
3 1,4-Dichlorobenze	691398	345699	1382796	691398	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\3ux10.1\012294-1C.b\UX7803.D
 Date : 29-DEC-2010 10:17
 Client ID:
 Sample Info: 50NC-1C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 3ux10.1
 Operator: 1904
 Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7804.D
Lab Smp Id: 25NG-IC
Inj Date : 29-DEC-2010 10:38
Operator : 1904
Smp Info : 25NG-IC
Misc Info : P01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 a3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	----	----	----	-----	-----	-----	-----	-----
* 1 Fluorobenzene	96		5.116	5.116	(1.000)	1538242	50.0000	
* 2 Chlorobenzene-d5	117		7.790	7.790	(1.000)	1094695	50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.038	10.038	(1.000)	586104	50.0000	
\$ 4 Dibromofluoromethane	113		4.536	4.536	(0.887)	148422	25.0000	23.879
\$ 5 1,2-Dichloroethane-d4	65		4.820	4.820	(0.942)	168703	25.0000	21.852
\$ 6 Toluene-d8	98		6.477	6.477	(0.831)	605386	25.0000	25.928
\$ 7 Bromofluorobenzene	95		8.902	8.902	(1.143)	202707	25.0000	23.474
8 Dichlorodifluoromethane	85		1.495	1.495	(0.292)	137642	25.0000	24.221
9 Chloromethane	50		1.613	1.613	(0.315)	179919	25.0000	23.594
10 Vinyl Chloride	62		1.708	1.708	(0.334)	166037	25.0000	23.422
11 Bromomethane	94		1.992	1.992	(0.389)	75262	25.0000	21.014
12 Chloroethane	64		2.075	2.075	(0.406)	97415	25.0000	22.685
13 Trichlorofluoromethane	101		2.300	2.300	(0.450)	150594	25.0000	24.681
15 Acrolein	56		2.607	2.607	(0.510)	256093	250.000	234.04
16 Acetone	43		2.726	2.726	(0.533)	85700	50.0000	42.521
17 1,1-Dichloroethene	96		2.714	2.714	(0.531)	166911	25.0000	25.798
18 Freon-113	151		2.738	2.738	(0.535)	108969	25.0000	22.651
19 Iodomethane	142		2.844	2.844	(0.556)	244551	25.0000	25.371
20 Carbon Disulfide	76		2.915	2.915	(0.570)	458190	25.0000	26.280
21 Methylene Chloride	84		3.104	3.104	(0.607)	191681	25.0000	23.604
22 Acetonitrile	41		2.951	2.951	(0.577)	114880	250.000	214.07
23 Acrylonitrile	53		3.282	3.282	(0.642)	114808	50.0000	46.879

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.341	3.341	(0.653)	453266	25.0000	22.839
25 trans-1,2-Dichloroethene	96	3.341	3.341	(0.653)	188247	25.0000	25.342
26 Hexane	86	3.566	3.566	(0.697)	34086	25.0000	21.859
27 Vinyl acetate	43	3.708	3.708	(0.725)	199799	25.0000	21.290
28 1,1-Dichloroethane	63	3.672	3.672	(0.718)	296924	25.0000	24.535
29 tert-Butyl Alcohol	59	3.164	3.164	(0.618)	152943	500.000	407.45
30 2-Butanone	43	4.146	4.146	(0.810)	114641	50.0000	41.204
32 cis-1,2-dichloroethene	96	4.158	4.158	(0.813)	187256	25.0000	24.225
33 2,2-Dichloropropane	77	4.158	4.158	(0.813)	167285	25.0000	23.668
34 Bromochloromethane	128	4.347	4.347	(0.850)	91293	25.0000	24.795
35 Chloroform	83	4.406	4.406	(0.861)	280741	25.0000	24.192
36 Tetrahydrofuran	42	4.394	4.394	(0.859)	38374	25.0000	19.887
37 1,1,1-Trichloroethane	97	4.584	4.584	(0.896)	220218	25.0000	24.286
38 1,1-Dichloropropene	75	4.714	4.714	(0.921)	217360	25.0000	23.546
39 Carbon Tetrachloride	117	4.725	4.725	(0.924)	164279	25.0000	23.281
40 1,2-Dichloroethane	62	4.891	4.891	(0.956)	203666	25.0000	23.136
41 Benzene	78	4.891	4.891	(0.956)	706744	25.0000	24.869
42 Trichloroethene	130	5.424	5.424	(1.060)	178964	25.0000	24.214
43 1,2-Dichloropropane	63	5.613	5.613	(1.097)	160387	25.0000	25.445
44 1,4-Dioxane	88	5.719	5.719	(1.118)	39321	1250.00	893.22
45 Dibromomethane	93	5.708	5.708	(1.116)	89205	25.0000	24.197
46 Bromodichloromethane	83	5.838	5.838	(1.141)	172652	25.0000	23.436
47 2-Chloroethyl vinyl ether	63	6.086	6.086	(1.190)	159134	50.0000	45.097
48 cis-1,3-Dichloropropene	75	6.228	6.228	(1.217)	206305	25.0000	23.049
49 4-Methyl-2-pentanone	43	6.347	6.347	(1.241)	220768	50.0000	41.939
50 Toluene	91	6.536	6.536	(0.839)	710948	25.0000	25.572
51 trans-1,3-Dichloropropene	75	6.713	6.713	(0.862)	166166	25.0000	22.704
52 Ethyl Methacrylate	69	6.784	6.784	(0.871)	159836	25.0000	22.148
53 1,1,2-Trichloroethane	97	6.879	6.879	(0.883)	132338	25.0000	25.947
54 1,3-Dichloropropane	76	7.033	7.033	(0.903)	231310	25.0000	25.008
55 Tetrachloroethene	164	7.045	7.045	(0.904)	144221	25.0000	24.890
56 2-Hexanone	43	7.092	7.092	(0.910)	130823	50.0000	38.266
57 Dibromochloromethane	129	7.246	7.246	(0.930)	116503	25.0000	23.658
58 1,2-Dibromoethane	107	7.364	7.364	(0.945)	124623	25.0000	24.241
59 Chlorobenzene	112	7.814	7.814	(1.003)	456563	25.0000	24.970
60 1,1,1,2-Tetrachloroethane	131	7.885	7.885	(1.012)	141201	25.0000	24.214
61 Ethylbenzene	106	7.920	7.920	(1.017)	240915	25.0000	24.304
62 m + p-Xylene	106	8.027	8.027	(1.030)	605228	50.0000	49.152
64 Xylene-o	106	8.405	8.405	(1.079)	291085	25.0000	24.180
65 Styrene	104	8.417	8.417	(1.080)	444119	25.0000	23.506
66 Bromoform	173	8.583	8.583	(1.102)	61545	25.0000	20.502
67 Isopropylbenzene	105	8.760	8.760	(1.125)	719630	25.0000	23.874
68 1,1,2,2-Tetrachloroethane	83	9.021	9.021	(0.899)	161544	25.0000	24.886
69 1,4-Dichloro-2-butene	53	9.080	9.080	(0.905)	21099	25.0000	15.722
70 1,2,3-Trichloropropane	110	9.068	9.068	(0.903)	50533	25.0000	22.858
71 Bromobenzene	156	9.056	9.056	(0.902)	186876	25.0000	23.740
72 n-Propylbenzene	120	9.163	9.163	(0.913)	194018	25.0000	24.142
73 2-Chlorotoluene	126	9.246	9.246	(0.921)	179362	25.0000	24.751
74 1,3,5-Trimethylbenzene	105	9.328	9.328	(0.929)	588244	25.0000	24.787
75 4-Chlorotoluene	126	9.352	9.352	(0.932)	180633	25.0000	23.764
76 tert-Butylbenzene	119	9.648	9.648	(0.961)	495797	25.0000	23.936
77 1,2,4-Trimethylbenzene	105	9.695	9.695	(0.966)	597357	25.0000	24.926
78 sec-Butylbenzene	105	9.861	9.861	(0.982)	656842	25.0000	24.288
79 4-Isopropyltoluene	119	10.003	10.003	(0.996)	556228	25.0000	24.342

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
80 1,3-Dichlorobenzene	146	9.979	9.979	(0.994)	359798	25.0000	25.340
81 1,4-Dichlorobenzene	146	10.062	10.062	(1.002)	373092	25.0000	25.080
82 n-Butylbenzene	91	10.417	10.417	(1.038)	436168	25.0000	24.370
83 1,2-Dichlorobenzene	146	10.429	10.429	(1.039)	336539	25.0000	25.574
84 1,2-Dibromo-3-chloropropane	157	11.198	11.198	(1.116)	24753	25.0000	25.518
85 1,2,4-Trichlorobenzene	180	12.038	12.038	(1.199)	199277	25.0000	26.183
86 Hexachlorobutadiene	225	12.216	12.216	(1.217)	72936	25.0000	25.389
87 Naphthalene	123	12.287	12.287	(1.224)	421801	25.0000	24.798
88 1,2,3-Trichlorobenzene	180	12.535	12.535	(1.249)	183011	25.0000	27.046
98 Cyclohexane	56	4.643	4.643	(0.907)	253803	25.0000	22.817
143 Methyl Acetate	43	3.010	3.010	(0.588)	234037	50.0000	43.892
144 Methylcyclohexane	83	5.613	5.613	(1.097)	231800	25.0000	21.256
141 1,3,5-Trichlorobenzene	180	11.423	11.423	(1.138)	222547	25.0000	26.217
149 Vinyl Acetate-86	86	3.708	3.708	(0.725)	23579	25.0000	21.882

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7804.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7804.D
 Lab Smp Id: 25NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,3

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1538242	-7.63
2 Chlorobenzene-d5	1259516	629758	2519032	1094695	-13.09
3 1,4-Dichlorobenze	691398	345699	1382796	586104	-15.23

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.12	0.05
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.03
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.02

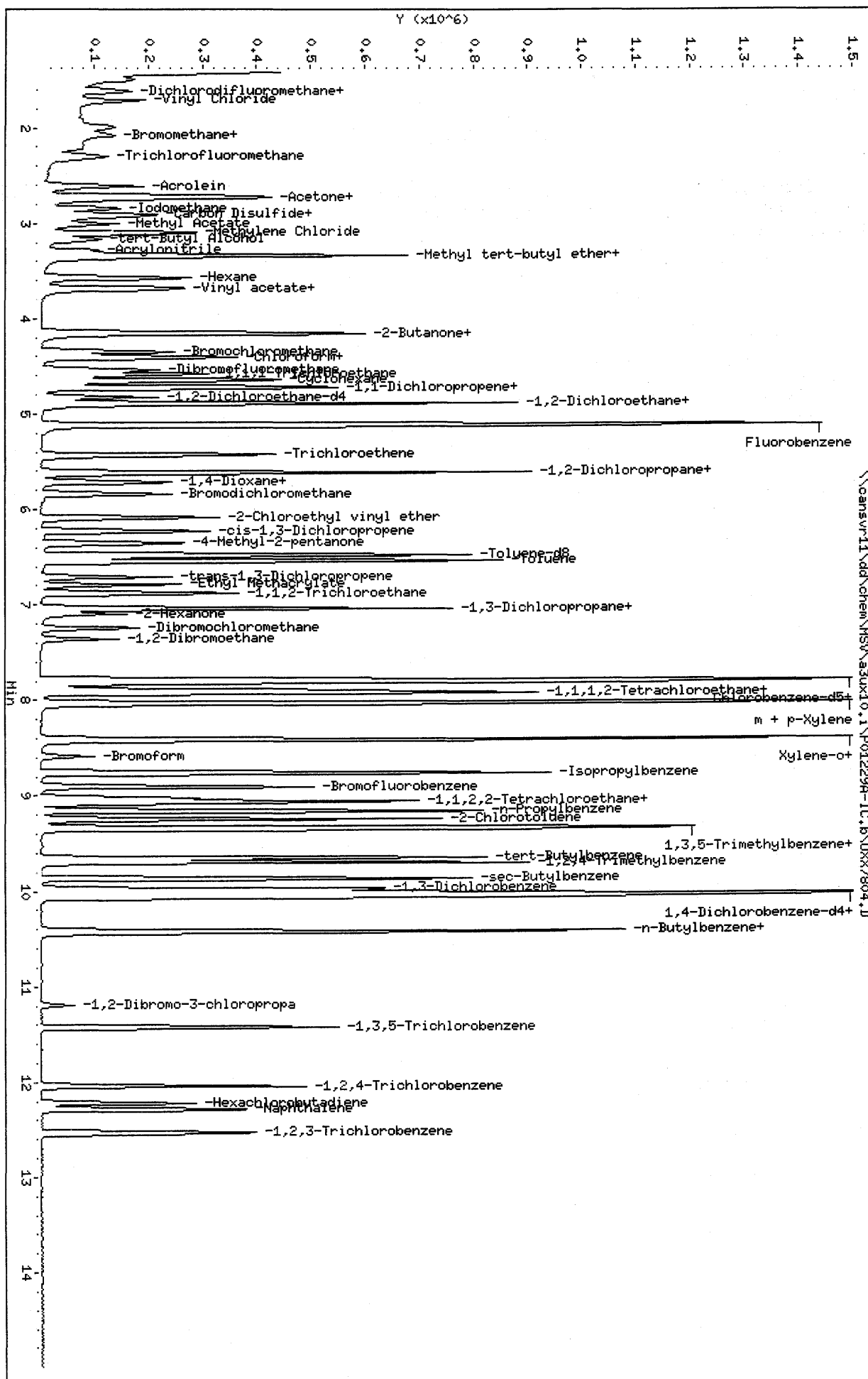
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\Pol229A-IC.b\UX7804.D
 Date : 29-DEC-2010 10:38
 Client ID:

Sample Info: 25NG-IC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.1

Operator: 1904
 Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7805.D
Lab Smp Id: 10NG-IC
Inj Date : 29-DEC-2010 10:59
Operator : 1904 Inst ID: a3ux10.i
Smp Info : 10NG-IC
Misc Info : P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 a3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 22:30 Cal File: UXX6624.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG					AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	****		----	-----	-----	-----	-----	-----
* 1 Fluorobenzene	96		5.114	5.114	(1.000)	1600262	50.0000	
* 2 Chlorobenzene-d5	117		7.788	7.788	(1.000)	1120612	50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.036	10.036	(1.000)	614337	50.0000	
\$ 4 Dibromofluoromethane	113		4.534	4.534	(0.887)	62516	10.0000	9.792
\$ 5 1,2-Dichloroethane-d4	65		4.818	4.818	(0.942)	74724	10.0000	9.621
\$ 6 Toluene-d8	98		6.474	6.474	(0.831)	238425	10.0000	9.863
\$ 7 Bromofluorobenzene	95		8.900	8.900	(1.143)	81049	10.0000	9.281
8 Dichlorodifluoromethane	85		1.493	1.493	(0.292)	57921	10.0000	10.014
9 Chloromethane	50		1.611	1.611	(0.315)	79102	10.0000	10.154
10 Vinyl Chloride	62		1.706	1.706	(0.334)	70091	10.0000	9.753
11 Bromomethane	94		1.990	1.990	(0.389)	39130	10.0000	11.073
12 Chloroethane	64		2.073	2.073	(0.405)	45434	10.0000	10.518
13 Trichlorofluoromethane	101		2.297	2.297	(0.449)	64982	10.0000	10.400
15 Acrolein	56		2.605	2.605	(0.509)	94099	100.000	84.239
16 Acetone	43		2.735	2.735	(0.535)	41603	20.0000	20.580
17 1,1-Dichloroethene	96		2.712	2.712	(0.530)	68212	10.0000	10.064
18 Freon-113	151		2.735	2.735	(0.535)	44913	10.0000	9.172
19 Iodomethane	142		2.842	2.842	(0.556)	107848	10.0000	10.705
20 Carbon Disulfide	76		2.913	2.913	(0.570)	188558	10.0000	10.229
21 Methylene Chloride	84		3.102	3.102	(0.607)	86129	10.0000	10.170
22 Acetonitrile	41		2.948	2.948	(0.577)	55035	100.000	101.28
23 Acrylonitrile	53		3.279	3.279	(0.641)	47251	20.0000	18.913

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
24 Methyl tert-butyl ether	73	3.339	3.339	(0.653)	183549		10.0000	9.100
25 trans-1,2-Dichloroethene	96	3.339	3.339	(0.653)	77120		10.0000	9.925
26 Hexane	86	3.563	3.563	(0.697)	11572		10.0000	7.319
27 Vinyl acetate	43	3.705	3.705	(0.725)	76146		10.0000	8.112
28 1,1-Dichloroethane	63	3.670	3.670	(0.718)	122000		10.0000	9.732
29 tert-Butyl Alcohol	59	3.173	3.173	(0.621)	60714		200.000	162.08
30 2-Butanone	43	4.155	4.155	(0.813)	47896		20.0000	17.102
32 cis-1,2-dichloroethene	96	4.155	4.155	(0.813)	77223		10.0000	9.672
33 2,2-Dichloropropane	77	4.155	4.155	(0.813)	67097		10.0000	9.247
34 Bromochloromethane	128	4.344	4.344	(0.850)	37483		10.0000	9.851
35 Chloroform	83	4.404	4.404	(0.861)	115112		10.0000	9.629
36 Tetrahydrofuran	42	4.404	4.404	(0.861)	16321		10.0000	8.533
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	89213		10.0000	9.567
38 1,1-Dichloropropene	75	4.711	4.711	(0.921)	85005		10.0000	8.946
39 Carbon Tetrachloride	117	4.723	4.723	(0.924)	65539		10.0000	9.077
40 1,2-Dichloroethane	62	4.889	4.889	(0.956)	83356		10.0000	9.343
41 Benzene	78	4.889	4.889	(0.956)	287618		10.0000	9.692
42 Trichloroethene	130	5.433	5.433	(1.062)	74330		10.0000	9.739
43 1,2-Dichloropropane	63	5.611	5.611	(1.097)	64203		10.0000	9.702
44 1,4-Dioxane	88	5.717	5.717	(1.118)	12420		500.000	296.57
45 Dibromomethane	93	5.705	5.705	(1.116)	36515		10.0000	9.584
46 Bromodichloromethane	83	5.835	5.835	(1.141)	70774		10.0000	9.328
47 2-Chloroethyl vinyl ether	63	6.084	6.084	(1.190)	58933		20.0000	16.211
48 cis-1,3-Dichloropropene	75	6.226	6.226	(1.217)	77544		10.0000	8.386
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	87339		20.0000	16.582
50 Toluene	91	6.534	6.534	(0.839)	286115		10.0000	9.957
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	62673		10.0000	8.508
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	59822		10.0000	8.277
53 1,1,2-Trichloroethane	97	6.877	6.877	(0.883)	54044		10.0000	10.244
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	92606		10.0000	9.716
55 Tetrachloroethene	164	7.042	7.042	(0.904)	57962		10.0000	9.743
56 2-Hexanone	43	7.101	7.101	(0.912)	49511		20.0000	15.064
57 Dibromochloromethane	129	7.243	7.243	(0.930)	44411		10.0000	8.889
58 1,2-Dibromoethane	107	7.362	7.362	(0.945)	50068		10.0000	9.588
59 Chlorobenzene	112	7.823	7.823	(1.005)	187996		10.0000	9.998
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	57209		10.0000	9.655
61 Ethylbenzene	106	7.918	7.918	(1.017)	93772		10.0000	9.234
62 m + p-Xylene	106	8.024	8.024	(1.030)	240025		20.0000	19.012
64 Xylene-o	106	8.403	8.403	(1.079)	115630		10.0000	9.420
65 Styrene	104	8.415	8.415	(1.081)	169579		10.0000	8.832
66 Bromoform	173	8.592	8.592	(1.103)	23797		10.0000	8.020
67 Isopropylbenzene	105	8.758	8.758	(1.125)	278627		10.0000	9.058
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	66617		10.0000	9.731
69 3,4-Dichloro-2-butene	53	9.078	9.078	(0.905)	8211		10.0000	6.495
70 1,2,3-Trichloropropane	110	9.066	9.066	(0.903)	20875		10.0000	9.217
71 Bromobenzene	156	9.054	9.054	(0.902)	76205		10.0000	9.319
72 n-Propylbenzene	120	9.160	9.160	(0.913)	74819		10.0000	8.898
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	72412		10.0000	9.537
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	228614		10.0000	9.124
75 4-Chlorotoluene	126	9.350	9.350	(0.932)	74701		10.0000	9.428
76 tert-Butylbenzene	119	9.646	9.646	(0.961)	190875		10.0000	8.811
77 1,2,4-Trimethylbenzene	105	9.693	9.693	(0.966)	234416		10.0000	9.252
78 sec-Butylbenzene	105	9.870	9.870	(0.983)	256001		10.0000	8.988
79 4-Isopropyltoluene	119	10.001	10.001	(0.996)	217247		10.0000	9.032

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
80 1,3-Dichlorobenzene	146	9.977	9.977	(0.994)	148876	10.0000	9.928	
81 1,4-Dichlorobenzene	146	10.060	10.060	(1.002)	160046	10.0000	10.206	
82 n-Butylbenzene	91	10.415	10.415	(1.038)	167791	10.0000	8.880	
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	144759	10.0000	10.356	
84 1,2-Dibromo-3-chloropropane	157	11.196	11.196	(1.116)	9044	10.0000	8.739	
85 1,2,4-Trichlorobenzene	180	12.036	12.036	(1.199)	81431	10.0000	9.920	
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	29577	10.0000	9.649	
87 Naphthalene	128	12.284	12.284	(1.224)	154210	10.0000	8.450	
88 1,2,3-Trichlorobenzene	180	12.533	12.533	(1.249)	75240	10.0000	10.198	
98 Cyclohexane	56	4.652	4.652	(0.910)	91448	10.0000	8.016	
143 Methyl Acetate	43	3.007	3.007	(0.588)	95867	20.0000	17.738	
144 Methylcyclohexane	83	5.611	5.611	(1.097)	85368	10.0000	7.712	
141 1,3,5-Trichlorobenzene	180	11.420	11.420	(1.138)	92963	10.0000	10.177	
149 Vinyl Acetate-86	86	3.694	3.694	(0.722)	8259	10.0000	7.574	

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7805.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7805.D
 Lab Smp Id: 10NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,2

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1600262	-3.90
2 Chlorobenzene-d5	1259516	629758	2519032	1120612	-11.03
3 1,4-Dichlorobenze	691398	345699	1382796	614337	-11.15

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Date: 29-DEC-2010 10:59

Client ID:

Sample Info: 10NG-IC

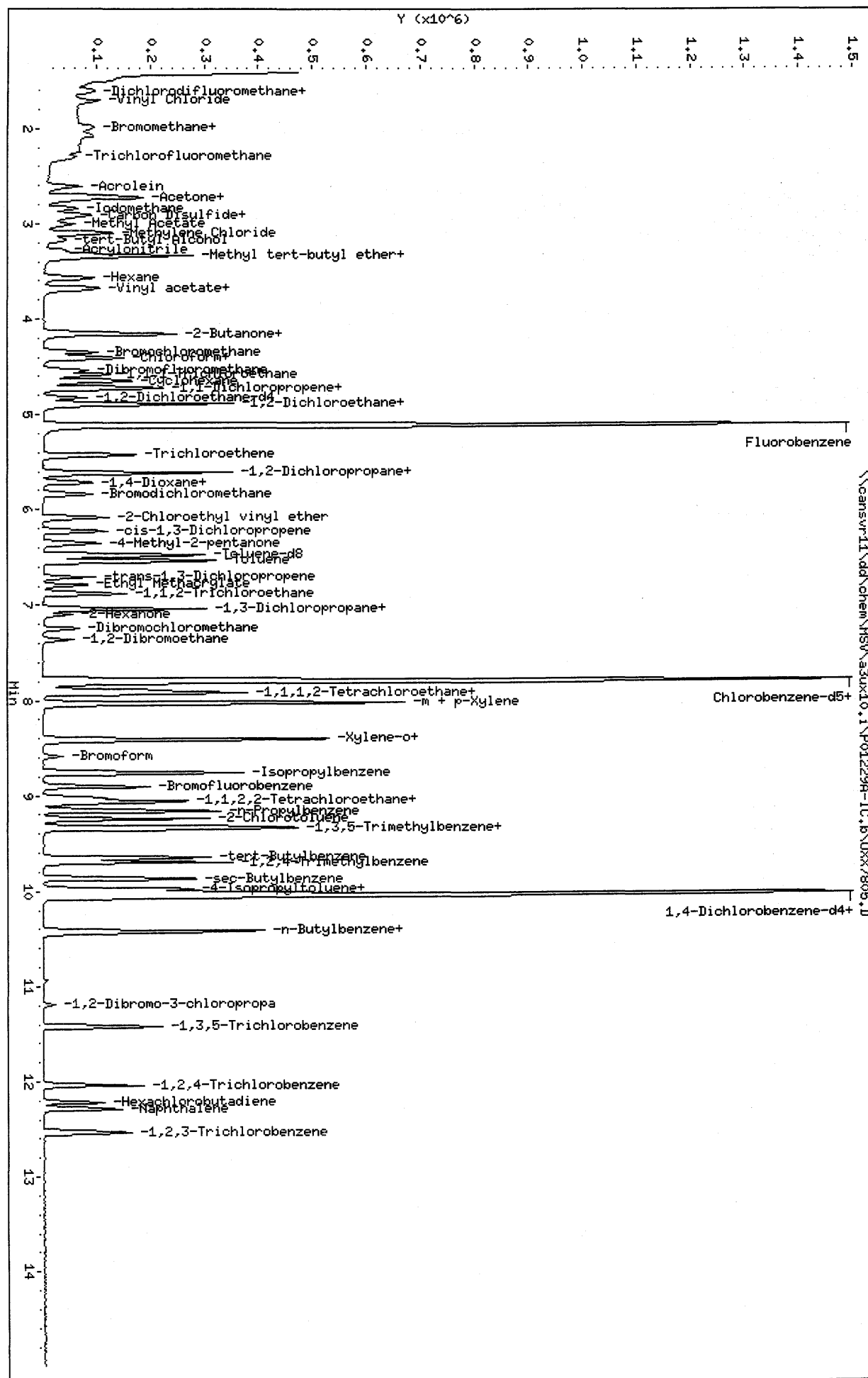
Purge Volume: 5.0

Column phase: DB624

Instrument: 33ux10.i

Operator: 1904

Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7806.D
Lab Smp Id: 5NG-IC
Inj Date : 29-DEC-2010 11:20
Operator : 1904 Inst ID: a3ux10.i
Smp Info : 5NG-IC
Misc Info : P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 a3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 22:51 Cal File: UXX6625.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====		----	----	-----	-----	-----	-----	-----
*	1 Fluorobenzene	96	5.113	5.113	(1.000)	1474128	50.0000	
*	2 Chlorobenzene-d5	117	7.787	7.787	(1.000)	1022167	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.035	10.035	(1.000)	593606	50.0000	
\$	4 Dibromofluoromethane	113	4.545	4.545	(0.889)	29629	5.00000	5.086
\$	5 1,2-Dichloroethane-d4	65	4.829	4.829	(0.944)	35551	5.00000	5.093
\$	6 Toluene-d8	98	6.473	6.473	(0.831)	112532	5.00000	5.080
\$	7 Bromofluorobenzene	95	8.899	8.899	(1.143)	39710	5.00000	5.060
	8 Dichlorodifluoromethane	85	1.492	1.492	(0.292)	26835	5.00000	5.098
	9 Chloromethane	50	1.610	1.610	(0.315)	34902	5.00000	4.923
	10 Vinyl Chloride	62	1.717	1.717	(0.336)	32301	5.00000	4.965
	11 Bromomethane	94	1.989	1.989	(0.389)	15274	5.00000	4.692
	12 Chloroethane	64	2.072	2.072	(0.405)	21199	5.00000	5.362
	13 Trichlorofluoromethane	101	2.296	2.296	(0.449)	28794	5.00000	4.989
	15 Acrolein	56	2.616	2.616	(0.512)	44551	50.0000	44.848
	16 Acetone	43	2.734	2.734	(0.535)	23177	10.0000	12.756
	17 1,1-Dichloroethene	96	2.711	2.711	(0.530)	33718	5.00000	5.411
	18 Freon-113	151	2.746	2.746	(0.537)	22792	5.00000	5.220
	19 Iodomethane	142	2.841	2.841	(0.556)	47615	5.00000	5.080
	20 Carbon Disulfide	76	2.912	2.912	(0.570)	89707	5.00000	5.231
	21 Methylene Chloride	84	3.101	3.101	(0.607)	42433	5.00000	5.482
	22 Acetonitrile	41	2.959	2.959	(0.579)	32948	50.0000	65.499
	23 Acrylonitrile	53	3.290	3.290	(0.644)	21464	10.0000	9.472

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
24 Methyl tert-butyl ether	73	3.338	3.338	(0.653)	89382		5.00000	4.947
25 trans-1,2-Dichloroethene	96	3.338	3.338	(0.653)	37788		5.00000	5.301
26 Hexane	86	3.574	3.574	(0.699)	5947		5.00000	4.350
27 Vinyl acetate	43	3.704	3.704	(0.725)	34599		5.00000	4.204
28 1,1-Dichloroethane	63	3.681	3.681	(0.720)	58898		5.00000	5.138
29 tert-Butyl Alcohol	59	3.172	3.172	(0.620)	35888		100.000	109.60
30 2-Butanone	43	4.154	4.154	(0.813)	22340		10.0000	9.120
32 cis-1,2-dichloroethene	96	4.154	4.154	(0.813)	36850		5.00000	5.060
33 2,2-Dichloropropane	77	4.166	4.166	(0.815)	32300		5.00000	4.952
34 Bromochloromethane	128	4.343	4.343	(0.850)	18381		5.00000	5.292
35 Chloroform	83	4.403	4.403	(0.861)	56015		5.00000	5.134
36 Tetrahydrofuran	42	4.403	4.403	(0.861)	8586		5.00000	5.172
37 1,1,1-Trichloroethane	97	4.580	4.580	(0.896)	40777		5.00000	4.816
38 1,1-Dichloropropene	75	4.722	4.722	(0.924)	39995		5.00000	4.682
39 Carbon Tetrachloride	117	4.734	4.734	(0.926)	29709		5.00000	4.574
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	38508		5.00000	4.822
41 Benzene	78	4.888	4.888	(0.956)	141338		5.00000	5.186
42 Trichloroethene	130	5.432	5.432	(1.062)	35939		5.00000	5.152
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	31617		5.00000	5.176
44 1,4-Dioxane	88	5.728	5.728	(1.120)	6912		250.000	193.82
45 Dibromomethane	93	5.716	5.716	(1.118)	17499		5.00000	5.026
46 Bromodichloromethane	83	5.834	5.834	(1.141)	33029		5.00000	4.741
47 2-Chloroethyl vinyl ether	63	6.083	6.083	(1.190)	25546		10.0000	7.758
48 cis-1,3-Dichloropropene	75	6.225	6.225	(1.218)	35817		5.00000	4.276
49 4-Methyl-2-pentanone	43	6.355	6.355	(1.243)	37740		10.0000	8.117
50 Toluene	91	6.544	6.544	(0.840)	129043		5.00000	4.886
51 trans-1,3-Dichloropropene	75	6.710	6.710	(0.862)	28925		5.00000	4.374
52 Ethyl Methacrylate	69	6.793	6.793	(0.872)	23900		5.00000	3.724
53 1,1,2-Trichloroethane	97	6.876	6.876	(0.883)	26382		5.00000	5.423
54 1,3-Dichloropropane	76	7.029	7.029	(0.903)	44568		5.00000	5.110
55 Tetrachloroethene	164	7.041	7.041	(0.904)	28820		5.00000	5.346
56 2-Hexanone	43	7.100	7.100	(0.912)	19691		10.0000	7.030
57 Dibromochloromethane	129	7.242	7.242	(0.930)	20522		5.00000	4.531
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	22513		5.00000	4.732
59 Chlorobenzene	112	7.822	7.822	(1.005)	90846		5.00000	5.283
60 1,1,1,2-Tetrachloroethane	131	7.881	7.881	(1.012)	26964		5.00000	4.986
61 Ethylbenzene	106	7.917	7.917	(1.017)	42494		5.00000	4.638
62 m + p-Xylene	106	8.023	8.023	(1.030)	105844		10.0000	9.222
64 Xylene-o	106	8.402	8.402	(1.079)	52679		5.00000	4.731
65 Styrene	104	8.414	8.414	(1.081)	74232		5.00000	4.304
66 Bromoform	173	8.591	8.591	(1.103)	10599		5.00000	4.020
67 Isopropylbenzene	105	8.757	8.757	(1.125)	126992		5.00000	4.592
68 1,1,2,2-Tetrachloroethane	83	9.017	9.017	(0.899)	31787		5.00000	4.783
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	9637		5.00000	4.467
71 Bromobenzene	156	9.053	9.053	(0.902)	36807		5.00000	4.708
72 n-Propylbenzene	120	9.159	9.159	(0.913)	32195		5.00000	4.009
73 2-Chlorotoluene	126	9.242	9.242	(0.921)	33037		5.00000	4.511
74 1,3,5-Trimethylbenzene	105	9.325	9.325	(0.929)	101881		5.00000	4.229
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	33612		5.00000	4.427
76 tert-Butylbenzene	119	9.645	9.645	(0.961)	86699		5.00000	4.202
77 1,2,4-Trimethylbenzene	105	9.692	9.692	(0.966)	104509		5.00000	4.272
78 sec-Butylbenzene	105	9.869	9.869	(0.983)	117537		5.00000	4.304
79 4-Isopropyltoluene	119	10.011	10.011	(0.998)	99685		5.00000	4.312
80 1,3-Dichlorobenzene	146	9.976	9.976	(0.994)	75809		5.00000	5.216

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	----	----	-----	-----	-----	-----	-----
81 1,4-Dichlorobenzene	146	10.059	10.059	(1.002)	81379	5.00000	5.340
82 n-Butylbenzene	91	10.414	10.414	(1.038)	80123	5.00000	4.422
83 1,2-Dichlorobenzene	146	10.425	10.425	(1.039)	73633	5.00000	5.382
84 1,2-Dibromo-3-chloropropane	157	11.195	11.195	(1.116)	4440	5.00000	4.446
85 1,2,4-Trichlorobenzene	180	12.035	12.035	(1.199)	43120	5.00000	5.322
86 Hexachlorobutadiene	225	12.212	12.212	(1.217)	15370	5.00000	5.138
87 Naphthalene	128	12.283	12.283	(1.224)	73756	5.00000	4.165
88 1,2,3-Trichlorobenzene	180	12.532	12.532	(1.249)	39542	5.00000	5.370
98 Cyclohexane	56	4.651	4.651	(0.910)	45384	5.00000	4.548 (a)
143 Methyl Acetate	43	3.006	3.006	(0.588)	46059	10.0000	9.627
144 Methylcyclohexane	83	5.610	5.610	(1.097)	41870	5.00000	4.349 (a)
141 1,3,5-Trichlorobenzene	180	11.419	11.419	(1.138)	48605	5.00000	5.410
149 Vinyl Acetate-86	86	3.704	3.704	(0.725)	3878	5.00000	4.021 (a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7806.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7806.D
 Lab Smp Id: 5NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,1

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1474128	-11.48
2 Chlorobenzene-d5	1259516	629758	2519032	1022167	-18.84
3 1,4-Dichlorobenze	691398	345699	1382796	593606	-14.14

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.02
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

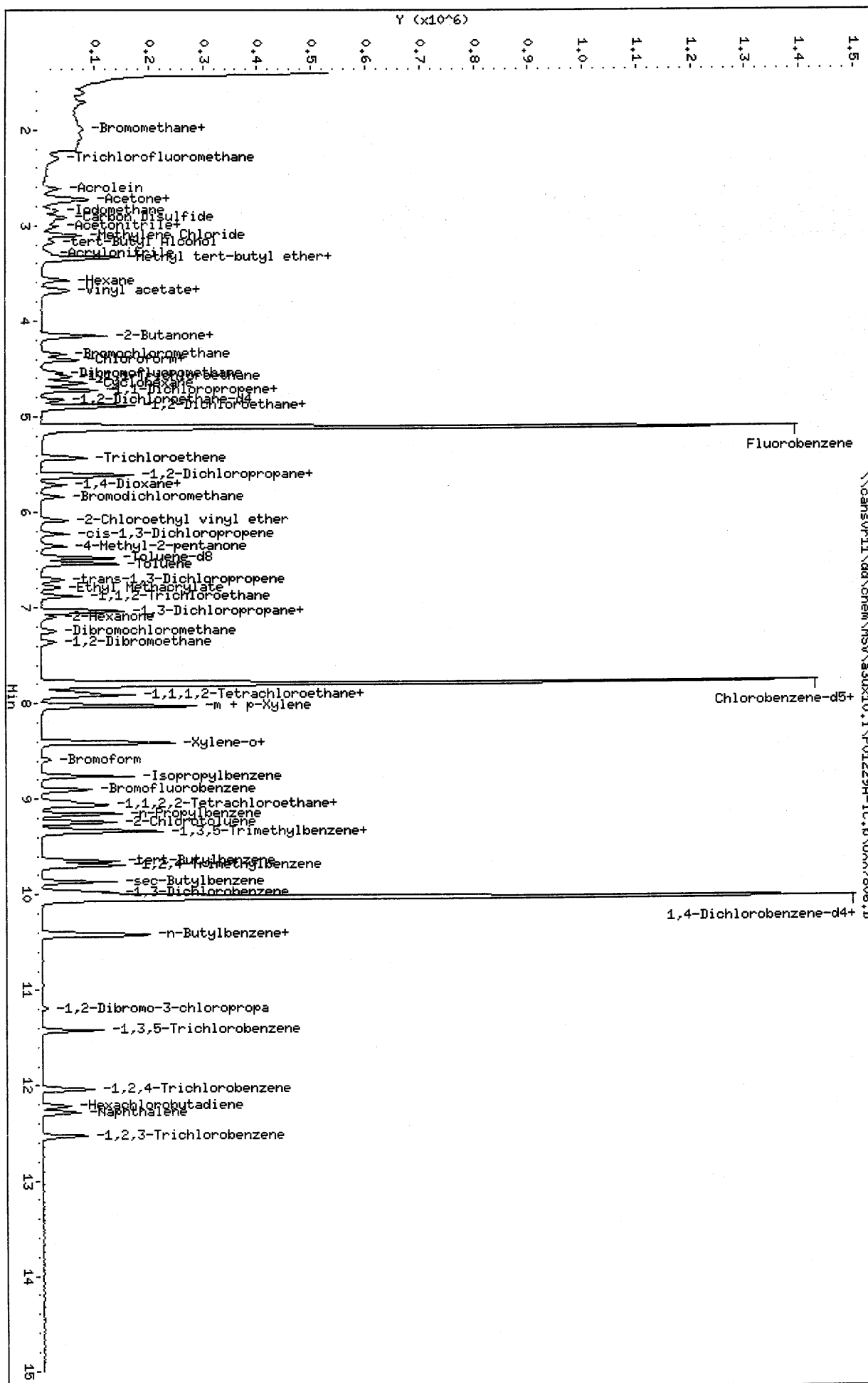
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PO12298-IC.b\UX7806.D
 Date: 29-DEC-2010 11:20
 Client ID:

Sample Info: SNC-IC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.1

Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
Report Date: 29-Dec-2010 12:23

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
Lab Smp Id: ICV
Inj Date : 29-DEC-2010 11:42
Operator : 1904 Inst ID: a3ux10.i
Smp Info : ICV
Misc Info : P01229A-IC,8260LLUX10,,1904,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:22 quayler Quant Type: ISTD
Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
Als bottle: 7 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96	5.113	5.114	(1.000)	1654389	50.0000		
* 2 Chlorobenzene-d5	117	7.787	7.788	(1.000)	1177620	50.0000		
* 3 1,4-Dichlorobenzene-d4	152	10.035	10.036	(1.000)	650156	50.0000		
\$ 4 Dibromofluoromethane	113	4.533	4.534	(0.887)	298403	45.7181	9.144	
\$ 5 1,2-Dichloroethane-d4	65	4.817	4.818	(0.942)	335083	43.8594	8.772	
\$ 6 Toluene-d8	98	6.473	6.474	(0.831)	1225936	47.5869	9.517	
\$ 7 Bromofluorobenzene	95	8.899	8.901	(1.143)	439285	48.5697	9.714	
8 Dichlorodifluoromethane	85	1.492	1.493	(0.292)	269400	46.2039	9.241	
9 Chloromethane	50	1.610	1.612	(0.315)	305719	39.9468	7.989	
10 Vinyl Chloride	62	1.705	1.706	(0.334)	335251	47.0935	9.419	
11 Bromomethane	94	1.989	1.990	(0.389)	155744	44.9979	9.000	
12 Chloroethane	64	2.072	2.073	(0.405)	207019	47.4885	9.498	
13 Trichlorofluoromethane	101	2.297	2.298	(0.449)	354855	55.6507	11.130	
15 Acrolein	56	2.604	2.605	(0.509)	189792	175.219	35.044	
16 Acetone	43	2.734	2.724	(0.535)	160507	78.5169	15.703	
17 1,1-Dichloroethene	96	2.711	2.712	(0.530)	369325	52.1736	10.435	
18 Freon-113	151	2.734	2.736	(0.535)	280771	57.7110	11.542	
19 Iodomethane	142	2.841	2.842	(0.556)	645049	61.5046	12.301	
20 Carbon Disulfide	76	2.912	2.913	(0.570)	1176910	59.9760	11.995	
21 Methylene Chloride	84	3.101	3.091	(0.607)	404577	47.8384	9.568	
22 Acetonitrile	41	2.947	2.949	(0.577)	82240	143.951	28.790	
23 Acrylonitrile	53	3.279	3.280	(0.641)	361305	143.399	28.680	

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.338	3.339	(0.653)	957844	48.1187	9.624
25 trans-1,2-Dichloroethene	96	3.338	3.327	(0.653)	400815	49.5721	9.914
26 Hexane	86	3.574	3.564	(0.699)	86277	59.3548	11.871
27 Vinyl acetate	43	3.716	3.694	(0.727)	1029900	118.373	23.675
28 1,1-Dichloroethane	63	3.669	3.670	(0.718)	628600	48.8572	9.771
29 tert-Butyl Alcohol	59	3.172	3.162	(0.620)	340941	927.765	185.55
30 2-Butanone	43	4.142	4.144	(0.810)	223328	87.8662	17.573
M 31 1,2-Dichloroethene (total)	96				797575	98.3216	19.664
32 cis-1,2-dichloroethene	96	4.154	4.144	(0.813)	396760	48.7495	9.750
33 2,2-Dichloropropane	77	4.166	4.155	(0.815)	363390	50.4845	10.097
34 Bromochloromethane	128	4.344	4.344	(0.850)	188292	48.1062	9.621
35 Chloroform	83	4.403	4.404	(0.861)	600205	49.2725	9.854
36 Tetrahydrofuran	42	4.391	4.392	(0.859)	80852	46.3603	9.272
37 1,1,1-Trichloroethane	97	4.580	4.582	(0.896)	468345	50.1660	10.033
38 1,1-Dichloropropene	75	4.722	4.712	(0.924)	473099	50.6138	10.123
39 Carbon Tetrachloride	117	4.722	4.724	(0.924)	366693	51.2225	10.244
40 1,2-Dichloroethane	62	4.888	4.889	(0.956)	423285	48.5139	9.703
41 Benzene	78	4.888	4.889	(0.956)	1492698	48.6071	9.721
42 Trichloroethene	130	5.432	5.422	(1.062)	380388	48.6656	9.733
43 1,2-Dichloropropane	63	5.610	5.611	(1.097)	342700	48.9798	9.796
44 1,4-Dioxane	88	Compound Not Detected.					
45 Dibromomethane	93	5.704	5.706	(1.116)	196689	50.2907	10.058
46 Bromodichloromethane	83	5.835	5.836	(1.141)	384272	49.0394	9.808
47 2-Chloroethyl vinyl ether	63	6.083	6.084	(1.190)	165397	44.3631	8.873
48 cis-1,3-Dichloropropene	75	6.225	6.226	(1.218)	454947	48.5507	9.710
49 4-Methyl-2-pentanone	43	6.355	6.356	(1.243)	459767	93.4818	18.696
50 Toluene	91	6.533	6.534	(0.839)	1535564	50.2757	10.055
51 trans-1,3-Dichloropropene	75	6.710	6.711	(0.862)	403572	53.1886	10.638
52 Ethyl Methacrylate	69	Compound Not Detected.					
53 1,1,2-Trichloroethane	97	6.876	6.877	(0.883)	278005	48.2950	9.659
54 1,3-Dichloropropane	76	7.030	7.031	(0.903)	489457	48.2418	9.648
55 Tetrachloroethene	164	7.041	7.043	(0.904)	319719	51.2808	10.256
56 2-Hexanone	43	7.101	7.090	(0.912)	277594	87.9291	17.586
57 Dibromochloromethane	129	7.243	7.244	(0.930)	255411	48.6634	9.733
58 1,2-Dibromoethane	107	7.361	7.362	(0.945)	263750	48.2994	9.660
59 Chlorobenzene	112	7.822	7.824	(1.005)	979278	48.9307	9.786
60 1,1,1,2-Tetrachloroethane	131	7.893	7.883	(1.014)	312212	49.4679	9.894
61 Ethylbenzene	106	7.917	7.918	(1.017)	528899	50.8914	10.178
62 m + p-Xylene	106	8.024	8.025	(1.030)	1331049	101.510	20.302
M 63 Xylenes (total)	106				1985541	153.014	30.603
64 Xylene-o	106	8.402	8.404	(1.079)	654492	51.5043	10.301
65 Styrene	104	8.414	8.414	(1.081)	1013581	51.7233	10.345
66 Bromoform	173	8.592	8.593	(1.103)	141561	41.6787	8.336
67 Isopropylbenzene	105	8.757	8.759	(1.125)	1615728	51.3418	10.268
68 1,1,1,2,2-Tetrachloroethane	83	9.018	9.019	(0.899)	334811	46.1157	9.223
69 1,4-Dichloro-2-butene	53	9.077	9.078	(0.904)	125826	101.857	20.371
70 1,2,3-Trichloropropane	110	9.077	9.066	(0.904)	109306	47.8394	9.568
71 Bromobenzene	156	9.053	9.054	(0.902)	407061	48.0161	9.603
72 n-Propylbenzene	120	9.160	9.161	(0.913)	448765	52.3773	10.475
73 2-Chlorotoluene	126	9.242	9.244	(0.921)	388950	49.0705	9.814
74 1,3,5-Trimethylbenzene	105	9.325	9.326	(0.929)	1316043	50.5757	10.115
75 4-Chlorotoluene	126	9.349	9.350	(0.932)	399707	48.7751	9.755
76 tert-Butylbenzene	119	9.645	9.646	(0.961)	1117871	50.8262	10.165
77 1,2,4-Trimethylbenzene	105	9.692	9.693	(0.966)	1354653	51.2297	10.246

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
78 sec-Butylbenzene	105	9.869	9.871	(0.983)	1502998	51.0455	10.209
79 4-Isopropyltoluene	119	10.011	10.013	(0.998)	1320204	52.6802	10.536
80 1,3-Dichlorobenzene	146	9.976	9.977	(0.994)	776293	48.3021	9.660
81 1,4-Dichlorobenzene	146	10.059	10.060	(1.002)	788526	46.8205	9.364
82 n-Butylbenzene	91	10.414	10.415	(1.038)	1036889	52.6348	10.527
83 1,2-Dichlorobenzene	146	10.426	10.427	(1.039)	728256	47.8190	9.564
84 1,2-Dibromo-3-chloropropane	157	11.195	11.196	(1.116)	51017	46.1084	9.222
85 1,2,4-Trichlorobenzene	180	12.035	12.036	(1.199)	455464	50.1791	10.036
86 Hexachlorobutadiene	225	12.212	12.214	(1.217)	164188	49.6063	9.921
87 Naphthalene	128	12.283	12.285	(1.224)	958799	42.7041	8.541
88 1,2,3-Trichlorobenzene	180	12.532	12.533	(1.249)	409561	49.2072	9.841
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	2.509	2.510	(0.491)	253212	40.7458	8.149
91 3-Chloropropene	76	2.912	3.007	(0.570)	1176910	298.715	59.743
92 Isopropyl Ether	87	3.728	3.729	(0.729)	319588	46.1646	9.233
93 2-Chloro-1,3-butadiene	53	3.563	3.764	(0.697)	12342	1.07843	0.2157
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.142	4.202	(0.810)	222544	41.0017	8.200
96 Methacrylonitrile	41	4.391	4.320	(0.859)	47802	11.8989	2.380
97 Isobutanol	41	4.758	4.758	(0.611)	360037	2072.05	414.41
99 n-Butanol	56	5.113	5.315	(0.657)	9054	66.8155	13.363
100 Methyl Methacrylate	41	5.610	5.693	(1.097)	395296	81.5660	16.313
101 2-Nitropropane	41	6.083	6.013	(1.190)	8806	11.1839	2.237
103 Cyclohexanone	55	8.840	8.841	(0.881)	107238	448.364	89.673
98 Cyclohexane	56	4.651	4.641	(0.910)	589296	54.2986	10.860
143 Methyl Acetate	43	3.006	3.008	(0.588)	233574	45.6087	9.122
144 Methylcyclohexane	83	5.610	5.611	(1.097)	570399	55.2819	11.056
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
149 Vinyl Acetate-86	86	3.705	3.694	(0.725)	66345	64.0454	12.809
153 t-Butyl ethyl ether	59	Compound Not Detected.					
154 t-Amyl methyl ether	73	4.888	4.971	(0.956)	24548	1.17680	0.2354 (a)
155 1,2,3-Trimethylbenzene	105	10.106	10.107	(1.007)	1338411	56.4276	11.286

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
Report Date: 29-Dec-2010 12:23

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
Lab Smp Id: ICV
Inj Date : 29-DEC-2010 11:42
Operator : 1904 Inst ID: a3ux10.i
Smp Info : ICV
Misc Info : P01229A-IC,8260LLUX10,,1904,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:22 quayler Quant Type: ISTD
Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
Als bottle: 7 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV24

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
 Report Date: 29-Dec-2010 12:23

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7807.D
 Lab Smp Id: ICV
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,,1904,3

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1654389	-0.65
2 Chlorobenzene-d5	1259516	629758	2519032	1177620	-6.50
3 1,4-Dichlorobenze	691398	345699	1382796	650156	-5.97

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.02
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00932
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV Operator: 1904
 Level: LOW SampleType: METHSPIKE
 Data Type: MS DATA Quant Type: ISTD
 SpikeList File: DOD-ck.spk
 Sublist File: 4-8260+IX.sub
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,,1904,3

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
17 1,1-Dichloroethene	10.000	10.435	104.35	45-155
42 Trichloroethene	10.000	9.733	97.33	45-155
59 Chlorobenzene	10.000	9.786	97.86	45-155
50 Toluene	10.000	10.055	100.55	45-155
41 Benzene	10.000	9.721	97.21	45-155
16 Acetone	20.000	15.703	78.52	45-155
20 Carbon Disulfide	10.000	11.995	119.95	45-155
9 Chloromethane	10.000	7.989	79.89	45-155
11 Bromomethane	10.000	9.000	90.00	45-155
10 Vinyl Chloride	10.000	9.419	94.19	45-155
12 Chloroethane	10.000	9.498	94.98	45-155
21 Methylene Chloride	10.000	9.568	95.68	45-155
28 1,1-Dichloroethane	10.000	9.771	97.71	45-155
M 31 1,2-Dichloroethene	20.000	19.664	98.32	45-155
35 Chloroform	10.000	9.854	98.54	45-155
40 1,2-Dichloroethane	10.000	9.703	97.03	45-155
30 2-Butanone	20.000	17.573	87.87	45-155
37 1,1,1-Trichloroeth	10.000	10.033	100.33	45-155
39 Carbon Tetrachlori	10.000	10.244	102.45	45-155
46 Bromodichlorometha	10.000	9.808	98.08	45-155
43 1,2-Dichloropropan	10.000	9.796	97.96	45-155
48 cis-1,3-Dichloropr	10.000	9.710	97.10	45-155
54 1,3-Dichloropropan	10.000	9.648	96.48	45-155
57 Dibromochlorometha	10.000	9.733	97.33	45-155
53 1,1,2-Trichloroeth	10.000	9.659	96.59	45-155
51 trans-1,3-Dichloro	10.000	10.638	106.38	45-155
66 Bromoform	10.000	8.336	83.36	45-155
49 4-Methyl-2-pentano	20.000	18.696	93.48	45-155
56 2-Hexanone	20.000	17.586	87.93	45-155
55 Tetrachloroethene	10.000	10.256	102.56	45-155
68 1,1,2,2-Tetrachlor	10.000	9.223	92.23	45-155
61 Ethylbenzene	10.000	10.178	101.78	45-155
65 Styrene	10.000	10.345	103.45	45-155
M 63 Xylenes (total)	30.000	30.603	102.01	45-155
32 cis-1,2-dichloroet	10.000	9.750	97.50	45-155
25 trans-1,2-Dichloro	10.000	9.914	99.14	45-155
8 Dichlorodifluorome	10.000	9.241	92.41	45-155
13 Trichlorofluoromet	10.000	11.130	111.30	45-155
70 1,2,3-Trichloropro	10.000	9.568	95.68	45-155
18 Freon-113	10.000	11.542	115.42	45-155

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
24 Methyl tert-butyl	10.000	9.624	96.24	45-155
58 1,2-Dibromoethane	10.000	9.660	96.60	45-155
67 Isopropylbenzene	10.000	10.268	102.68	45-155
80 1,3-Dichlorobenzen	10.000	9.660	96.60	45-155
81 1,4-Dichlorobenzen	10.000	9.364	93.64	45-155
83 1,2-Dichlorobenzen	10.000	9.564	95.64	45-155
84 1,2-Dibromo-3-chlo	10.000	9.222	92.22	45-155
85 1,2,4-Trichloroben	10.000	10.036	100.36	45-155
98 Cyclohexane	10.000	10.860	108.60	45-155
143 Methyl Acetate	10.000	9.122	91.22	45-155
144 Methylcyclohexane	10.000	11.056	110.56	45-155
71 Bromobenzene	10.000	9.603	96.03	45-155
34 Bromochloromethane	10.000	9.621	96.21	45-155
82 n-Butylbenzene	10.000	10.527	105.27	45-155
78 sec-Butylbenzene	10.000	10.209	102.09	45-155
76 tert-Butylbenzene	10.000	10.165	101.65	45-155
73 2-Chlorotoluene	10.000	9.814	98.14	45-155
75 4-Chlorotoluene	10.000	9.755	97.55	45-155
45 Dibromomethane	10.000	10.058	100.58	45-155
33 2,2-Dichloropropan	10.000	10.097	100.97	45-155
38 1,1-Dichloropropen	10.000	10.123	101.23	45-155
86 Hexachlorobutadien	10.000	9.921	99.21	45-155
19 Iodomethane	10.000	12.301	123.01	45-155
92 Isopropyl Ether	10.000	9.233	92.33	45-155
79 4-Isopropyltoluene	10.000	10.536	105.36	45-155
87 Naphthalene	10.000	8.541	85.41	45-155
72 n-Propylbenzene	10.000	10.475	104.75	45-155
60 1,1,1,2-Tetrachlor	10.000	9.894	98.94	45-155
88 1,2,3-Trichloroben	10.000	9.841	98.41	45-155
77 1,2,4-Trimethylben	10.000	10.246	102.46	45-155
74 1,3,5-Trimethylben	10.000	10.115	101.15	45-155
149 Vinyl Acetate-86	10.000	12.809	128.09	45-155
62 m + p-Xylene	20.000	20.302	101.51	45-155
64 Xylene-o	10.000	10.301	103.01	45-155

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Dibromofluorometha	10.000	9.144	91.44	75-121
\$ 5 1,2-Dichloroethane	10.000	8.772	87.72	63-129
\$ 6 Toluene-d8	10.000	9.517	95.17	74-115
\$ 7 Bromofluorobenzene	10.000	9.714	97.14	66-117

Data File: \\oansvr11\dd\chem\MSV\33ux10.1\POL229A-IC.b\UX7807.D
 Date : 29-DEC-2010 11:42

Client ID:

Sample Info: ICV

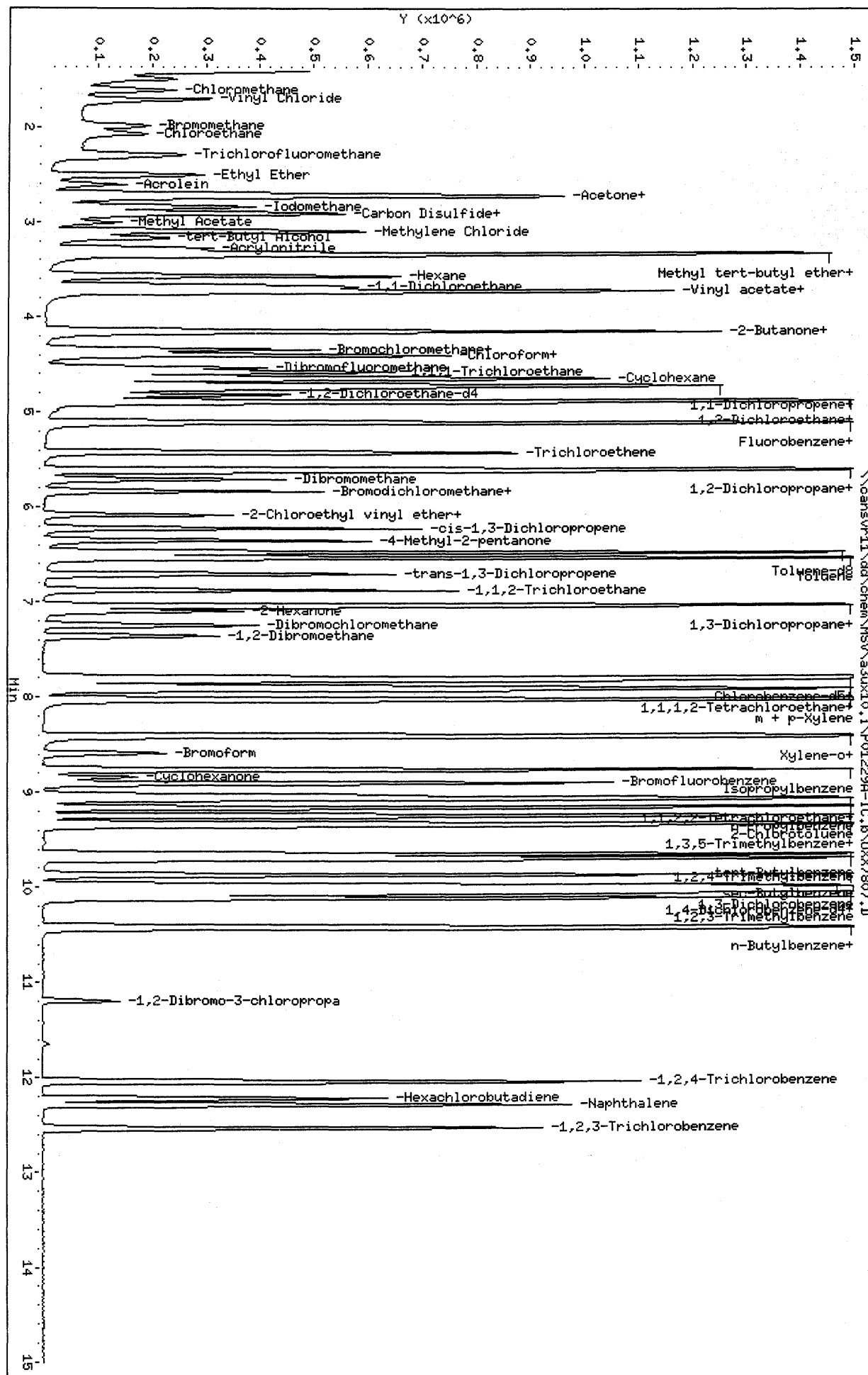
Purge Volume: 5.0

Column phase: DB624

Instrument: 33ux10.1

Operator: 1904

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6200.D
Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6200.D
Lab Smp Id: 200NG-A9IC
Inj Date : 14-NOV-2010 19:17
Operator : 1904
Smp Info : 200NG-A9IC
Misc Info : P01114A-IC, 8260LLUX10, 3-IX.SUB, 1904, 1, 6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
Meth Date : 15-Nov-2010 08:41 a3ux10.i Quant Type: ISTD
Cal Date : 14-NOV-2010 21:03 Cal File: UXX6205.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-IX.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	MASS	QUANT SIG				AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	****	----	-----	-----	-----	-----	-----
* 1 Fluorobenzene	96	5.108	5.108	(1.000)	1619753	50.0000	
* 2 Chlorobenzene-d5	117	7.794	7.794	(1.000)	1168820	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	629422	50.0000	
14 Dichlorofluoromethane	67	2.233	2.233	(0.437)	2353019	200.000	197.93
89 Ethyl Ether	59	2.505	2.505	(0.490)	1207481	200.000	198.46
91 3-Chloropropene	76	3.002	3.002	(0.588)	821128	200.000	212.87
92 Isopropyl Ether	87	3.735	3.735	(0.731)	7066382	1000.00	1042.6
93 2-Chloro-1,3-butadiene	53	3.759	3.759	(0.736)	2329226	200.000	207.88
94 Propionitrile	54	4.185	4.185	(0.819)	356128	400.000	447.30
95 Ethyl Acetate	43	4.197	4.197	(0.822)	2232153	400.000	420.05
96 Methacrylonitrile	41	4.315	4.315	(0.845)	803818	200.000	204.36
97 Isobutanol	41	4.753	4.753	(0.610)	665629	4000.00	3859.6
99 n-Butanol	56	5.309	5.309	(0.681)	587297	4000.00	4366.7
100 Methyl Methacrylate	41	5.688	5.688	(1.113)	1016536	200.000	214.24
101 2-Nitropropane	41	6.019	6.019	(1.178)	604717	400.000	493.82
103 Cyclohexanone	55	8.835	8.835	(0.880)	482303	2000.00	2082.9
146 2-Methylnaphthalene	142	13.568	13.568	(1.351)	1814371	400.000	401.42
153 t-Butyl ethyl ether	59	4.031	4.031	(0.789)	4610687	200.000	208.52
154 t-Amyl methyl ether	73	4.978	4.978	(0.975)	4272276	200.000	209.19
155 1,2,3-Trimethylbenzene	105	10.113	10.113	(1.007)	4946566	200.000	215.42

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6200.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6200.D
 Lab Smp Id: 200NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,6

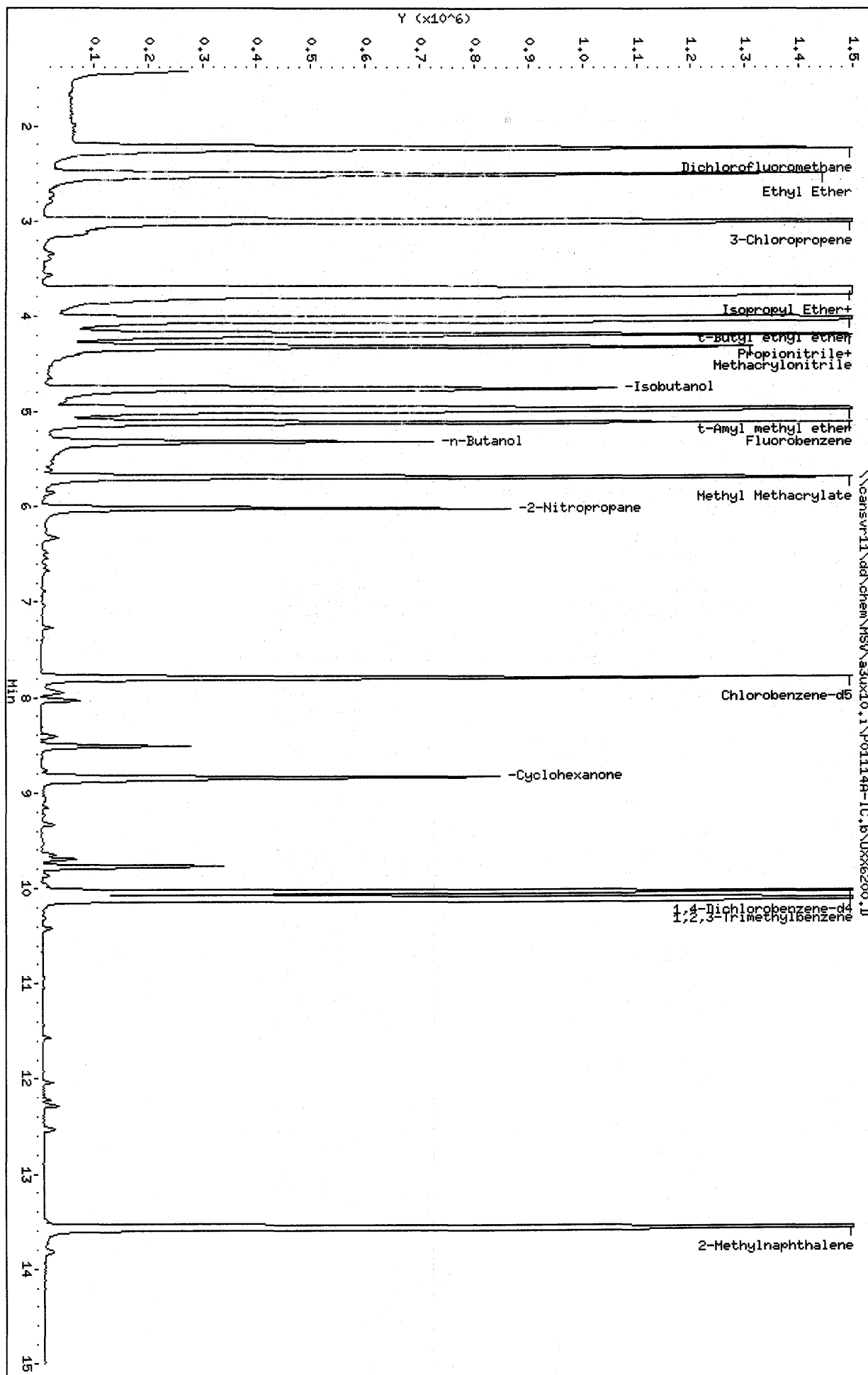
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1619753	5.72
2 Chlorobenzene-d5	1087660	543830	2175320	1168820	7.46
3 1,4-Dichlorobenze	606796	303398	1213592	629422	3.73

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.11	-0.20
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PO1144-IC.b\UXX6200.D
 Date : 14-NOV-2010 19:17
 Client ID:
 Sample Info: 200NG-A91C
 Purge Volume: 5.0
 Column Phase: DB624

Instrument: 33ux10.1
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6201.D
Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6201.D
Lab Smp Id: 100NG-A9IC
Inj Date : 14-NOV-2010 19:38
Operator : 1904
Smp Info : 100NG-A9IC
Misc Info : P01114A-IC, 8260LLUX10, 3-IX.SUB, 1904, 1, 5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
Meth Date : 15-Nov-2010 08:41 a3ux10.i Quant Type: ISTD
Cal Date : 14-NOV-2010 19:17 Cal File: UXX6200.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-IX.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Fluorobenzene	96	5.119	5.119	(1.000)	1484623	50.0000	
*	2 Chlorobenzene-d5	117	7.793	7.793	(1.000)	1068111	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.041	10.041	(1.000)	597077	50.0000	
	14 Dichlorofluoromethane	67	2.243	2.243	(0.438)	1089461	100.000	99.985
	89 Ethyl Ether	59	2.516	2.516	(0.491)	572748	100.000	102.70
	91 3-Chloropropene	76	3.001	3.001	(0.586)	373210	100.000	105.56
	92 Isopropyl Ether	87	3.734	3.734	(0.730)	3255735	500.000	524.07
	93 2-Chloro-1,3-butadiene	53	3.758	3.758	(0.734)	1063771	100.000	103.58
	94 Propionitrile	54	4.184	4.184	(0.817)	154280	200.000	211.42
	95 Ethyl Acetate	43	4.196	4.196	(0.820)	1025948	200.000	210.64
	96 Methacrylonitrile	41	4.326	4.326	(0.845)	366446	100.000	101.65
	97 Isobutanol	41	4.764	4.764	(0.611)	315616	2000.00	2002.6
	99 n-Butanol	56	5.320	5.320	(0.683)	274323	2000.00	2232.0
	100 Methyl Methacrylate	41	5.687	5.687	(1.111)	459199	100.000	105.59
	101 2-Nitropropane	41	6.018	6.018	(1.176)	258138	200.000	229.99
	103 Cyclohexanone	55	8.834	8.834	(0.880)	232481	1000.00	1058.4
	146 2-Methylnaphthalene	142	13.567	13.567	(1.351)	924077	200.000	215.52
	153 t-Butyl ethyl ether	59	4.030	4.030	(0.787)	2128544	100.000	105.02
	154 t-Amyl methyl ether	73	4.977	4.977	(0.972)	1969271	100.000	105.20
	155 1,2,3-Trimethylbenzene	105	10.112	10.112	(1.007)	2332602	100.000	107.08

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6201.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6201.D
 Lab Smp Id: 100NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,5

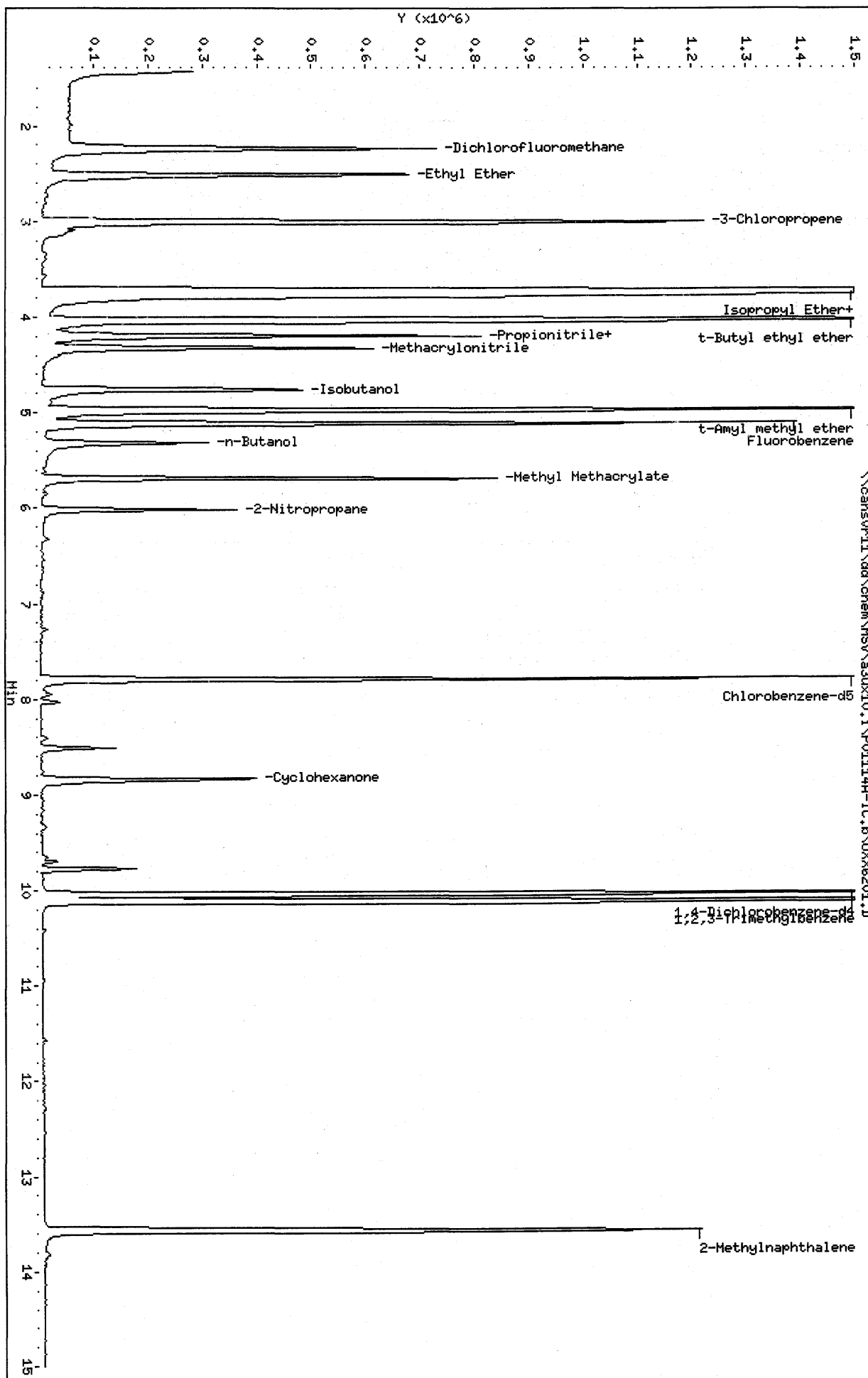
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1484623	-3.10
2 Chlorobenzene-d5	1087660	543830	2175320	1068111	-1.80
3 1,4-Dichlorobenze	606796	303398	1213592	597077	-1.60

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.01
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PO11144-IC.b\JXX6201.D
 Date : 14-NOV-2010 19:38
 Client ID:
 Sample Info: 100NG-A91C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6202.D
Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6202.D
Lab Smp Id: 50NG-A9IC
Inj Date : 14-NOV-2010 19:59
Operator : 1904
Smp Info : 50NG-A9IC
Misc Info : P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
Meth Date : 15-Nov-2010 08:41 a3ux10.i Quant Type: ISTD
Cal Date : 14-NOV-2010 21:03 Cal File: UXX6205.D
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-IX.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96	5.118	5.118	(1.000)	1532110	50.0000	
* 2 Chlorobenzene-d5	117	7.792	7.792	(1.000)	1087660	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.041	10.041	(1.000)	606796	50.0000	
14 Dichlorofluoromethane	67	2.231	2.231	(0.436)	556052	50.0000	49.450
89 Ethyl Ether	59	2.503	2.503	(0.489)	283665	50.0000	49.289
91 3-Chloropropene	76	3.000	3.000	(0.586)	183911	50.0000	50.404
92 Isopropyl Ether	87	3.734	3.734	(0.730)	1585361	250.000	247.28
93 2-Chloro-1,3-butadiene	53	3.757	3.757	(0.734)	530550	50.0000	50.059
94 Propionitrile	54	4.183	4.183	(0.817)	72437	100.000	96.187
95 Ethyl Acetate	43	4.195	4.195	(0.820)	463627	100.000	92.236
96 Methacrylonitrile	41	4.325	4.325	(0.845)	177117	50.0000	47.607
97 Isobutanol	41	4.763	4.763	(0.611)	156729	1000.00	976.60
99 n-Butanol	56	5.319	5.319	(0.683)	127173	1000.00	1016.1
100 Methyl Methacrylate	41	5.686	5.686	(1.111)	214042	50.0000	47.691
101 2-Nitropropane	41	6.017	6.017	(1.176)	112061	100.000	96.746
103 Cyclohexanone	55	8.834	8.834	(0.880)	110857	500.000	496.62
146 2-Methylnaphthalene	142	13.567	13.567	(1.351)	466262	100.000	107.00
153 t-Butyl ethyl ether	59	4.030	4.030	(0.787)	1044174	50.0000	49.924
154 t-Amyl methyl ether	73	4.976	4.976	(0.972)	956751	50.0000	49.526
155 1,2,3-Trimethylbenzene	105	10.112	10.112	(1.007)	1089916	50.0000	49.234

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6202.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6202.D
 Lab Smp Id: 50NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,4

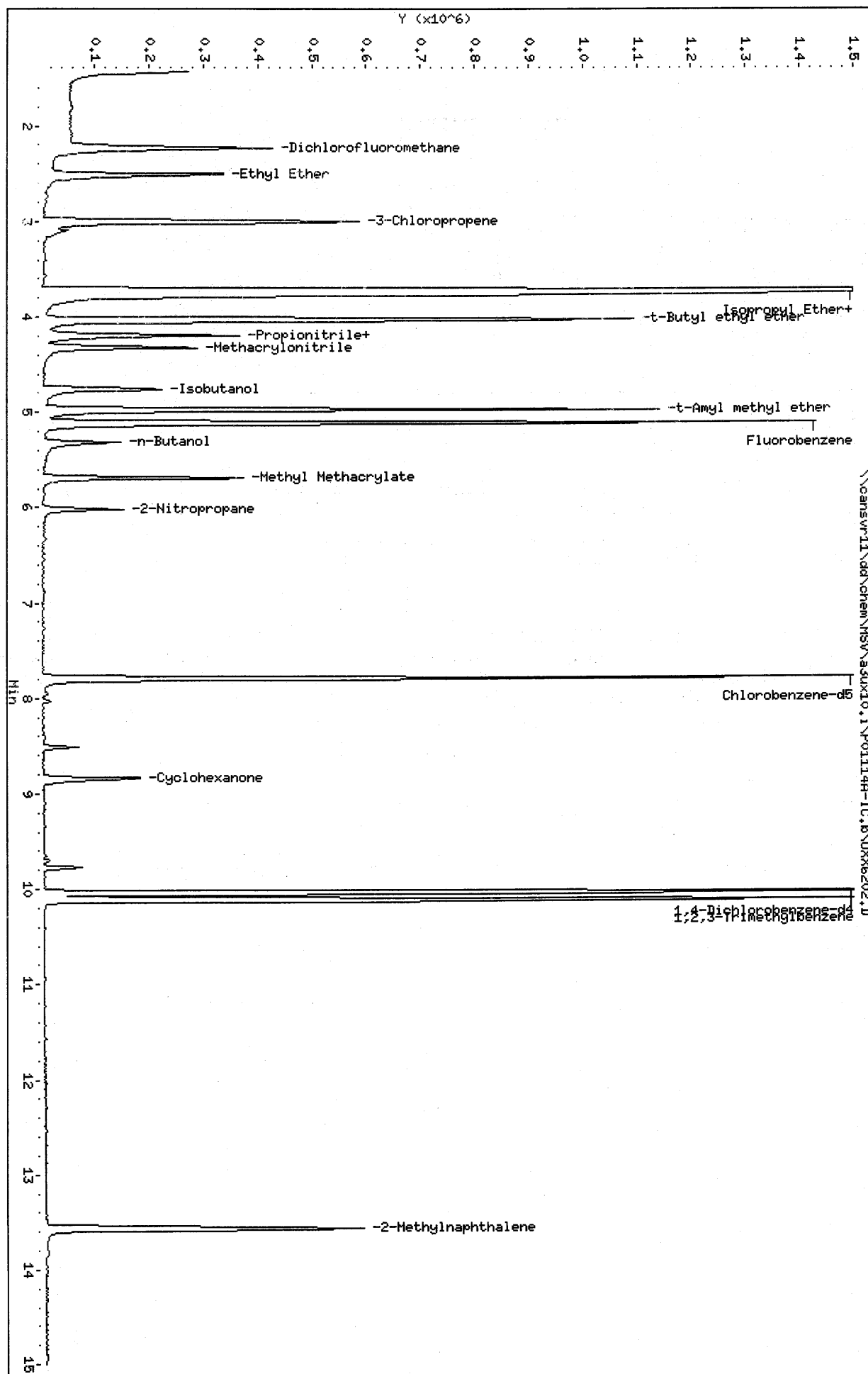
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1532110	0.00
2 Chlorobenzene-d5	1087660	543830	2175320	1087660	0.00
3 1,4-Dichlorobenze	606796	303398	1213592	606796	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\1011144-1C.b\UX6202.D
 Date : 14-NOV-2010 19:59
 Client ID:
 Sample Info: 50NG-A91C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6203.D
Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6203.D
Lab Smp Id: 25NG-A9IC
Inj Date : 14-NOV-2010 20:21
Operator : 1904
Smp Info : 25NG-A9IC
Misc Info : P01114A-IC, 8260LLUX10, 3-IX.SUB, 1904, 1, 3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
Meth Date : 15-Nov-2010 08:41 a3ux10.i Quant Type: ISTD
Cal Date : 14-NOV-2010 19:38 Cal File: UXX6201.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-IX.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
						ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96	5.119	5.119	(1.000)	1496438	50.0000
* 2 Chlorobenzene-d5	117	7.793	7.793	(1.000)	1059265	50.0000
* 3 1,4-Dichlorobenzene-d4	152	10.041	10.041	(1.000)	606349	50.0000
14 Dichlorofluoromethane	67	2.231	2.231	(0.436)	282261	25.0000 25.700
89 Ethyl Ether	59	2.504	2.504	(0.489)	143383	25.0000 25.508
91 3-Chloropropene	76	3.001	3.001	(0.586)	92573	25.0000 25.976
92 Isopropyl Ether	87	3.734	3.734	(0.730)	782760	125.000 125.00
93 2-Chloro-1,3-butadiene	53	3.758	3.758	(0.734)	260601	25.0000 25.174
94 Propionitrile	54	4.184	4.184	(0.817)	36924	50.0000 50.199
95 Ethyl Acetate	43	4.196	4.196	(0.820)	236531	50.0000 48.178
96 Methacrylonitrile	41	4.314	4.314	(0.843)	92769	25.0000 25.529
97 Isobutanol	41	4.764	4.764	(0.611)	81458	500.000 521.18
99 n-Butanol	56	5.320	5.320	(0.683)	63892	500.000 524.18
100 Methyl Methacrylate	41	5.687	5.687	(1.111)	108154	25.0000 24.672
101 2-Nitropropane	41	6.018	6.018	(1.176)	49870	50.0000 44.081
103 Cyclohexanone	55	8.834	8.834	(0.880)	55402	250.000 248.37
146 2-Methylnaphthalene	142	13.567	13.567	(1.351)	210207	50.0000 48.277
153 t-Butyl ethyl ether	59	4.030	4.030	(0.787)	513051	25.0000 25.115
154 t-Amyl methyl ether	73	4.977	4.977	(0.972)	469844	25.0000 24.901
155 1,2,3-Trimethylbenzene	105	10.112	10.112	(1.007)	544125	25.0000 24.598

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6203.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6203.D
 Lab Smp Id: 25NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,3

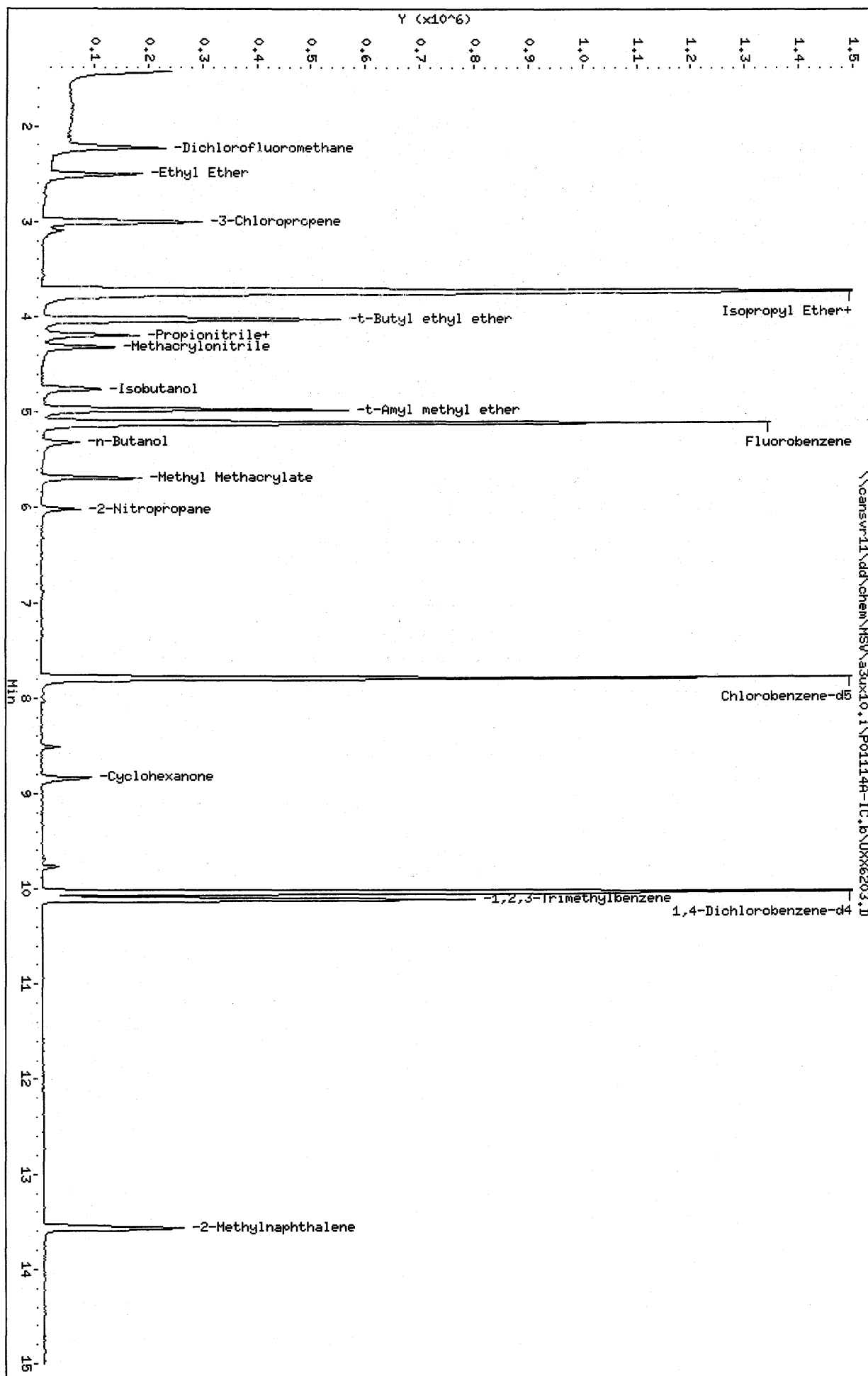
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1496438	-2.33
2 Chlorobenzene-d5	1087660	543830	2175320	1059265	-2.61
3 1,4-Dichlorobenze	606796	303398	1213592	606349	-0.07

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.01
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PO11144-IC.b\UXX6203.D
 Date : 14-NOV-2010 20:21
 Client ID:
 Sample Info: 25NG-A91C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.1
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6204.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6204.D
 Lab Smp Id: 10NG-A9IC
 Inj Date : 14-NOV-2010 20:42
 Operator : 1904
 Smp Info : 10NG-A9IC
 Misc Info : P01114A-IC, 8260LLUX10, 3-IX.SUB, 1904, 1, 2
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Meth Date : 15-Nov-2010 08:41 a3ux10.i Quant Type: ISTD
 Cal Date : 14-NOV-2010 20:21 Cal File: UXX6203.D
 Als bottle: 12 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-IX.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Fluorobenzene	96	5.119	5.119	(1.000)	1474073	50.0000	
*	2 Chlorobenzene-d5	117	7.793	7.793	(1.000)	1076524	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	639126	50.0000	
	14 Dichlorofluoromethane	67	2.244	2.244	(0.438)	108549	10.0000	10.033
	89 Ethyl Ether	59	2.516	2.516	(0.492)	54083	10.0000	9.767
	91 3-Chloropropene	76	3.001	3.001	(0.586)	33227	10.0000	9.465
	92 Isopropyl Ether	87	3.735	3.735	(0.730)	301086	50.0000	48.812
	93 2-Chloro-1,3-butadiene	53	3.758	3.758	(0.734)	98652	10.0000	9.674
	94 Propionitrile	54	4.184	4.184	(0.817)	14342	20.0000	19.794
	95 Ethyl Acetate	43	4.196	4.196	(0.820)	94230	20.0000	19.485
	96 Methacrylonitrile	41	4.326	4.326	(0.845)	37253	10.0000	10.407
	97 Isobutanol	41	4.752	4.752	(0.610)	34005	200.000	214.08
	99 n-Butanol	56	5.320	5.320	(0.683)	22674	200.000	183.04
	100 Methyl Methacrylate	41	5.687	5.687	(1.111)	42444	10.0000	9.829
	101 2-Nitropropane	41	6.018	6.018	(1.176)	20644	20.0000	18.524
	103 Cyclohexanone	55	8.835	8.835	(0.880)	21872	100.000	93.025
	146 2-Methylnaphthalene	142	13.568	13.568	(1.351)	87340	20.0000	19.030
	153 t-Butyl ethyl ether	59	4.031	4.031	(0.787)	194586	10.0000	9.670
	154 t-Amyl methyl ether	73	4.977	4.977	(0.972)	182894	10.0000	9.840
	155 1,2,3-Trimethylbenzene	105	10.113	10.113	(1.007)	226938	10.0000	9.733

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6204.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6204.D
 Lab Smp Id: 10NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,2

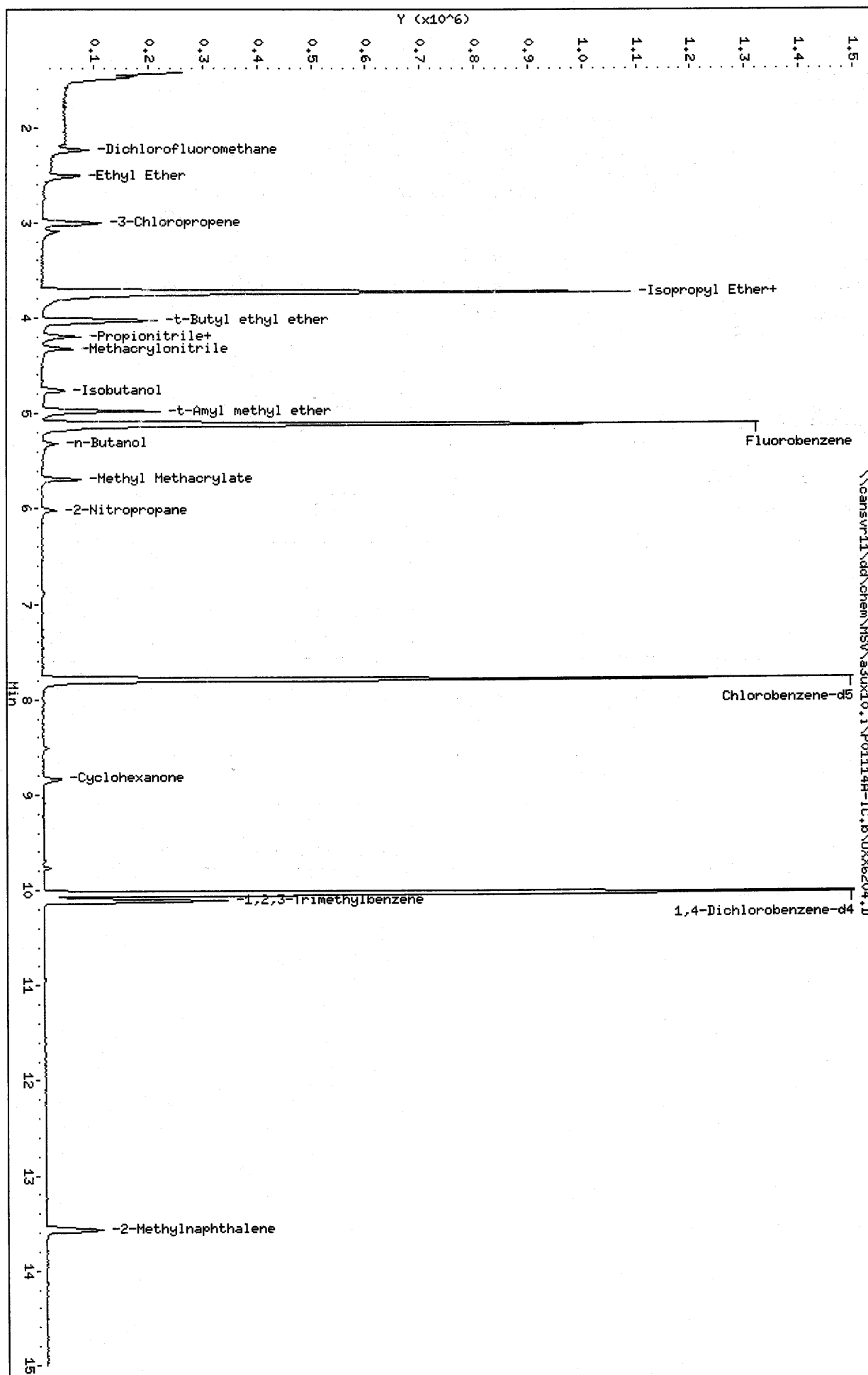
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1474073	-3.79
2 Chlorobenzene-d5	1087660	543830	2175320	1076524	-1.02
3 1,4-Dichlorobenze	606796	303398	1213592	639126	5.33

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.02
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\p011144-1C.b\UXX6204.D
 Date: 14-NOV-2010 20:42
 Client ID:
 Sample Info: 10NC-A91C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: a3ux10.i
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6205.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6205.D
 Lab Smp Id: 5NG-A9IC
 Inj Date : 14-NOV-2010 21:03
 Operator : 1904
 Smp Info : 5NG-A9IC
 Misc Info : P01114A-IC, 8260LLUX10, 3-IX.SUB, 1904, 1, 1
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\8260LLUX10.m
 Meth Date : 15-Nov-2010 08:41 3ux10.i Quant Type: ISTD
 Cal Date : 14-NOV-2010 20:42 Cal File: UXX6204.D
 Als bottle: 13 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-IX.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
*****	****	****	*****	*****	*****	*****	*****
* 1 Fluorobenzene	96	5.120	5.120	(1.000)	1486938	50.0000	
* 2 Chlorobenzene-d5	117	7.794	7.794	(1.000)	1062001	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	587992	50.0000	
14 Dichlorofluoromethane	67	2.232	2.232	(0.436)	54028	5.00000	4.951
89 Ethyl Ether	59	2.505	2.505	(0.489)	27867	5.00000	4.989
91 3-Chloropropene	76	3.001	3.001	(0.586)	15695	5.00000	4.432
92 Isopropyl Ether	87	3.735	3.735	(0.730)	146823	25.0000	23.597
93 2-Chloro-1,3-butadiene	53	3.759	3.759	(0.734)	48818	5.00000	4.746
94 Propionitrile	54	4.185	4.185	(0.817)	6352	10.0000	8.691
95 Ethyl Acetate	43	4.197	4.197	(0.820)	50565	10.0000	10.365
96 Methacrylonitrile	41	4.327	4.327	(0.845)	17109	5.00000	4.738
97 Isobutanol	41	4.765	4.765	(0.611)	14799	100.000	94.442
99 n-Butanol	56	5.321	5.321	(0.683)	9931	100.000	81.266
100 Methyl Methacrylate	41	5.688	5.688	(1.111)	20675	5.00000	4.746
101 2-Nitropropane	41	6.019	6.019	(1.176)	9445	10.0000	8.402
103 Cyclohexanone	55	8.835	8.835	(0.880)	10633	50.0000	49.157
146 2-Methylnaphthalene	142	13.568	13.568	(1.351)	39343	10.0000	9.318
153 t-Butyl ethyl ether	59	4.031	4.031	(0.787)	95112	5.00000	4.686(a)
154 t-Amyl methyl ether	73	4.978	4.978	(0.972)	87319	5.00000	4.657(a)
155 1,2,3-Trimethylbenzene	105	10.113	10.113	(1.007)	97621	5.00000	4.551(a)

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6205.D
Report Date: 15-Nov-2010 08:41

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6205.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6205.D
 Lab Smp Id: 5NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,1

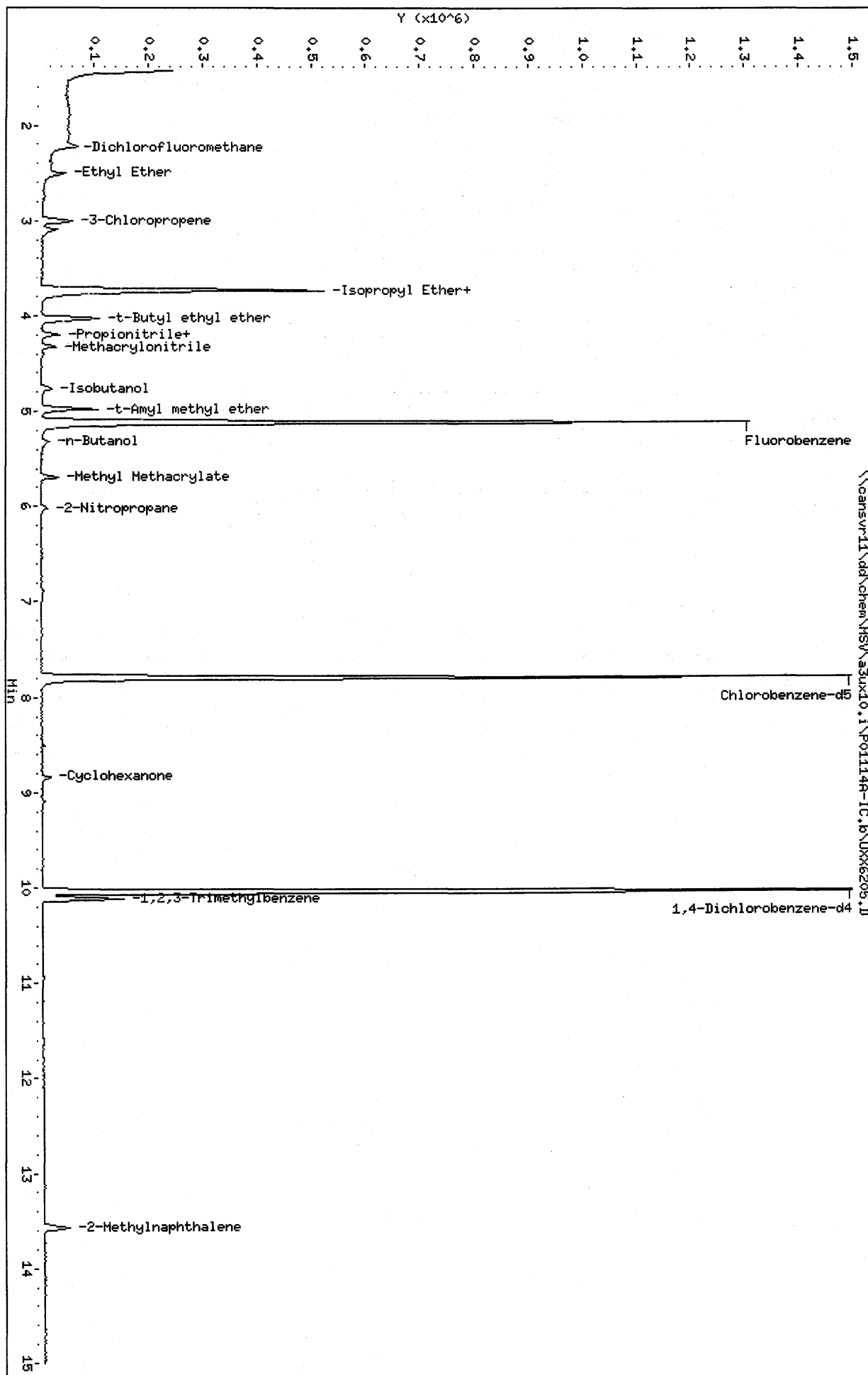
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1486938	-2.95
2 Chlorobenzene-d5	1087660	543830	2175320	1062001	-2.36
3 1,4-Dichlorobenze	606796	303398	1213592	587992	-3.10

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.03
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\as3ux10.i\p01144-1C.b\UXX6205.D
 Date : 14-NOV-2010 21:03
 Client ID:
 Sample Info: SNC-091C
 Purge Volume: 5.0
 Column Phase: DB624

Instrument: as3ux10.i
 Operator: 1904
 Column diameter: 0.18



Calibration History

Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Start Cal Date: 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Last Cal Level: 4
 Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
23-NOV-2010 23:13	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6626.D
14-NOV-2010 21:03	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6205.D
29-DEC-2010 11:20	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7806.D
Cal Level: 2 , Cal Amount: 10.00000		
23-NOV-2010 22:51	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6625.D
14-NOV-2010 20:42	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6204.D
29-DEC-2010 10:59	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7805.D
Cal Level: 3 , Cal Amount: 25.00000		
23-NOV-2010 22:30	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6624.D
14-NOV-2010 20:21	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6203.D
29-DEC-2010 10:38	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7804.D
Cal Level: 4 , Cal Amount: 50.00000		
23-NOV-2010 22:09	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6623.D
14-NOV-2010 19:59	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6202.D
29-DEC-2010 10:17	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7803.D
Cal Level: 5 , Cal Amount: 100.00000		
23-NOV-2010 21:47	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6622.D
14-NOV-2010 19:38	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6201.D

29-DEC-2010 09:55	2-8260
\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7802.D	

Cal Level: 6 , Cal Amount: 200.00000	
--------------------------------------	--

23-NOV-2010 21:26	MISC
\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6621.D	
14-NOV-2010 19:17	3-IX
\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6200.D	
29-DEC-2010 09:33	2-8260
\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7801.D	

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

10-JAN-2011 09:51	2-8260
\\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D	
10-JAN-2011 10:13	3-IX
\\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7993.D	

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 3ux10.i Injection Date: 10-JAN-2011 09:51
 Lab File ID: UXX7992.D Init. Cal. Date(s): 14-NOV-2010 29-DEC-2010
 Analysis Type: WATER Init. Cal. Times: 16:46 11:20
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
4 Dibromofluoromethane	0.19726	0.19647	0.19647	0.010	0.40027	50.00000	Averaged
5 1,2-Dichloroethane-d4	0.23090	0.22800	0.22800	0.010	1.25765	50.00000	Averaged
6 Toluene-d8	1.09382	1.01913	1.01913	0.010	6.82849	50.00000	Averaged
7 Bromofluorobenzene	0.38401	0.37305	0.37305	0.010	2.85413	50.00000	Averaged
8 Dichlorodifluoromethane	0.17622	0.13688	0.13688	0.010	22.32130	50.00000	Averaged
9 Chloromethane	0.23130	0.18231	0.18231	0.100	21.18068	50.00000	Averaged
10 Vinyl Chloride	0.21515	0.20115	0.20115	0.010	6.50600	20.00000	Averaged
11 Bromomethane	0.10460	0.10149	0.10149	0.010	2.97597	50.00000	Averaged
12 Chloroethane	0.13175	0.12980	0.12980	0.010	1.48100	50.00000	Averaged
13 Trichlorofluoromethane	0.19271	0.21684	0.21684	0.010	-12.52065	50.00000	Averaged
15 Acrolein	0.03274	0.02663	0.02663	0.010	18.63921	50.00000	Averaged
16 Acetone	0.06178	0.06400	0.06400	0.010	-3.59259	50.00000	Averaged
17 1,1-Dichloroethene	0.21394	0.19788	0.19788	0.010	7.50528	20.00000	Averaged
18 Freon-113	0.14704	0.18040	0.18040	0.010	-22.69034	50.00000	Averaged
19 Iodomethane	0.31697	0.28066	0.28066	0.010	11.45666	50.00000	Averaged
20 Carbon Disulfide	0.59306	0.53215	0.53215	0.010	10.27119	50.00000	Averaged
21 Methylene Chloride	0.25560	0.21887	0.21887	0.010	14.37033	50.00000	Averaged
22 Acetonitrile	500	752	0.02384	0.010	-50.40406	0.000e+000	Quadratic
23 Acrylonitrile	0.07615	0.06904	0.06904	0.010	9.33325	50.00000	Averaged
24 Methyl tert-butyl ether	0.60161	0.54598	0.54598	0.010	9.24723	50.00000	Averaged
25 trans-1,2-Dichloroethene	0.24436	0.21529	0.21529	0.010	11.89991	50.00000	Averaged
26 Hexane	0.04393	0.05162	0.05162	0.010	-17.51044	20.00000	Averaged
27 Vinyl acetate	0.26295	0.23120	0.23120	0.010	12.07610	50.00000	Averaged
28 1,1-Dichloroethane	0.38885	0.36485	0.36485	0.100	6.17255	50.00000	Averaged
29 tert-Butyl Alcohol	0.01111	0.01423	0.01423	0.010	-28.11126	50.00000	Averaged
30 2-Butanone	0.07682	0.08591	0.08591	0.010	-11.84163	50.00000	Averaged
M 31 1,2-Dichloroethene (total)	0.24517	0.22964	0.22964	0.010	6.33605	50.00000	Averaged
32 cis-1,2-dichloroethene	0.24597	0.24399	0.24399	0.010	0.80860	50.00000	Averaged
33 2,2-Dichloropropane	0.21754	0.22598	0.22598	0.010	-3.87614	50.00000	Averaged
34 Bromochloromethane	0.11829	0.12029	0.12029	0.010	-1.68477	50.00000	Averaged
35 Chloroform	0.36815	0.37300	0.37300	0.010	-1.31792	20.00000	Averaged
36 Tetrahydrofuran	0.05271	0.05307	0.05307	0.010	-0.68566	50.00000	Averaged
37 1,1,1-Trichloroethane	0.28216	0.30469	0.30469	0.010	-7.98555	50.00000	Averaged
38 1,1-Dichloropropene	0.28250	0.31272	0.31272	0.010	-10.69864	50.00000	Averaged
39 Carbon Tetrachloride	0.21636	0.27074	0.27074	0.010	-25.13380	50.00000	Averaged
40 1,2-Dichloroethane	0.26369	0.28461	0.28461	0.010	-7.93185	50.00000	Averaged
41 Benzene	0.92812	0.95386	0.95386	0.010	-2.77322	50.00000	Averaged
42 Trichloroethene	0.23623	0.24144	0.24144	0.010	-2.20406	50.00000	Averaged
43 1,2-Dichloropropane	0.21146	0.21618	0.21618	0.010	-2.22965	20.00000	Averaged
44 1,4-Dioxane	2500	4393	0.00229	0.010	-75.72317	0.000e+000	Quadratic
45 Dibromomethane	0.11820	0.12828	0.12828	0.010	-8.52444	50.00000	Averaged
46 Bromodichloromethane	0.23682	0.25702	0.25702	0.010	-8.52959	50.00000	Averaged
47 2-Chloroethyl vinyl ether	100	94.47835	0.11118	0.010	5.52165	0.000e+000	Wt Linear

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 3ux10.i Injection Date: 10-JAN-2011 09:51
 Lab File ID: UXX7992.D Init. Cal. Date(s): 14-NOV-2010 29-DEC-2010
 Analysis Type: WATER Init. Cal. Times: 16:46 11:20
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 cis-1,3-Dichloropropene	0.28320	0.30399	0.30399	0.010	-7.34140	50.00000	Averaged
49 4-Methyl-2-pentanone	0.14864	0.15711	0.15711	0.010	-5.69577	50.00000	Averaged
50 Toluene	1.29680	1.25006	1.25006	0.010	3.60484	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.32216	0.32370	0.32370	0.010	-0.48018	50.00000	Averaged
52 Ethyl Methacrylate	50.00000	42.25775	0.27730	0.010	15.48450	0.000e+000	Wt Linear
53 1,1,2-Trichloroethane	0.24441	0.23373	0.23373	0.010	4.36785	50.00000	Averaged
54 1,3-Dichloropropane	0.43078	0.41021	0.41021	0.010	4.77495	50.00000	Averaged
55 Tetrachloroethene	0.26471	0.26441	0.26441	0.010	0.11438	50.00000	Averaged
56 2-Hexanone	100	92.29741	0.12395	0.010	7.70259	0.000e+000	Wt Linear
57 Dibromochloromethane	0.22284	0.22908	0.22908	0.010	-2.79826	50.00000	Averaged
58 1,2-Dibromoethane	0.23185	0.22926	0.22926	0.010	1.11841	50.00000	Averaged
59 Chlorobenzene	0.84975	0.79617	0.79617	0.300	6.30500	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.26797	0.26704	0.26704	0.010	0.34861	50.00000	Averaged
61 Ethylbenzene	0.44126	0.42116	0.42116	0.010	4.55390	20.00000	Averaged
62 m + p-Xylene	0.55674	0.54331	0.54331	0.010	2.41235	50.00000	Averaged
M 63 Xylenes (total)	0.55101	0.53315	0.53315	0.010	3.24087	50.00000	Averaged
64 Xylene-o	0.53954	0.51283	0.51283	0.010	4.95072	50.00000	Averaged
65 Styrene	0.83203	0.81531	0.81531	0.010	2.00876	50.00000	Averaged
66 Bromoform	50.00000	47.35017	0.13781	0.100	5.29967	0.000e+000	Wt Linear
67 Isopropylbenzene	1.33617	1.31819	1.31819	0.010	1.34553	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.55835	0.50107	0.50107	0.300	10.25767	50.00000	Averaged
69 1,4-Dichloro-2-butene	50.00000	54.66769	0.09527	0.010	-9.33538	0.000e+000	Quadratic
70 1,2,3-Trichloropropane	0.17572	0.16406	0.16406	0.010	6.63339	50.00000	Averaged
71 Bromobenzene	0.65197	0.56367	0.56367	0.010	13.54312	50.00000	Averaged
72 n-Propylbenzene	0.65891	0.61197	0.61197	0.010	7.12496	50.00000	Averaged
73 2-Chlorotoluene	0.60957	0.53784	0.53784	0.010	11.76699	50.00000	Averaged
74 1,3,5-Trimethylbenzene	2.00116	1.86211	1.86211	0.010	6.94844	50.00000	Averaged
75 4-Chlorotoluene	0.63023	0.56309	0.56309	0.010	10.65215	50.00000	Averaged
76 tert-Butylbenzene	1.69144	1.76345	1.76345	0.010	-4.25739	50.00000	Averaged
77 1,2,4-Trimethylbenzene	2.03357	1.89335	1.89335	0.010	6.89518	50.00000	Averaged
78 sec-Butylbenzene	2.26440	2.19472	2.19472	0.010	3.07723	50.00000	Averaged
79 4-Isopropyltoluene	1.92729	1.89369	1.89369	0.010	1.74333	50.00000	Averaged
80 1,3-Dichlorobenzene	1.23598	1.10966	1.10966	0.010	10.22069	50.00000	Averaged
81 1,4-Dichlorobenzene	1.29519	1.16111	1.16111	0.010	10.35206	50.00000	Averaged
82 n-Butylbenzene	1.51500	1.50660	1.50660	0.010	0.55451	50.00000	Averaged
83 1,2-Dichlorobenzene	1.17121	1.09080	1.09080	0.010	6.86530	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.08509	0.09626	0.09626	0.010	-13.11974	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.69804	0.69188	0.69188	0.010	0.88328	50.00000	Averaged
86 Hexachlorobutadiene	0.25454	0.28172	0.28172	0.010	-10.67856	50.00000	Averaged
87 Naphthalene	50.00000	46.89560	1.62893	0.010	6.20881	0.000e+000	Wt Linear
88 1,2,3-Trichlorobenzene	0.64009	0.67303	0.67303	0.010	-5.14593	50.00000	Averaged
98 Cyclohexane	0.32800	0.39437	0.39437	0.010	-20.23382	50.00000	Averaged
143 Methyl Acetate	0.15478	0.14601	0.14601	0.010	5.66401	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux10.i Injection Date: 10-JAN-2011 09:51
 Lab File ID: UXX7992.D Init. Cal. Date(s): 14-NOV-2010 29-DEC-2010
 Analysis Type: WATER Init. Cal. Times: 16:46 11:20
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
144 Methylcyclohexane	0.31184	0.39709	0.39709	0.010	-27.33882	50.00000	Averaged
141 1,3,5-Trichlorobenzene	0.77561	0.78452	0.78452	0.010	-1.14924	50.00000	Averaged
149 Vinyl Acetate-86	0.03131	0.02783	0.02783	0.010	11.09695	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7992.D
 Lab Smp Id: 50NG-CC
 Inj Date : 10-JAN-2011 09:51
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info : 50NG-CC
 Misc Info : P10110A,8260LLUX10,2-8260.SUB,1904,2
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 a3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-8260.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
	MASS							(ng)	(ng)
=====	=====		=====	=====	=====	=====		=====	=====
* 1 Fluorobenzene	96		5.113	5.113	(1.000)	1370072		50.0000	
* 2 Chlorobenzene-d5	117		7.787	7.787	(1.000)	1084996		50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.036	10.036	(1.000)	659942		50.0000	
\$ 4 Dibromofluoromethane	113		4.533	4.533	(0.887)	269184		50.0000	49.800
\$ 5 1,2-Dichloroethane-d4	65		4.817	4.817	(0.942)	312370		50.0000	49.371
\$ 6 Toluene-d8	98		6.474	6.474	(0.831)	1105748		50.0000	46.586
\$ 7 Bromofluorobenzene	95		8.900	8.900	(1.143)	404761		50.0000	48.573
8 Dichlorodifluoromethane	85		1.492	1.492	(0.292)	187541		50.0000	38.839
9 Chloromethane	50		1.611	1.611	(0.315)	249775		50.0000	39.410
10 Vinyl Chloride	62		1.717	1.717	(0.336)	275593		50.0000	46.747
11 Bromomethane	94		1.989	1.989	(0.389)	139051		50.0000	48.512
12 Chloroethane	64		2.084	2.084	(0.408)	177835		50.0000	49.260
13 Trichlorofluoromethane	101		2.297	2.297	(0.449)	297090		50.0000	56.260
15 Acrolein	56		2.605	2.605	(0.509)	364911		500.000	406.80
16 Acetone	43		2.735	2.735	(0.535)	175374		100.000	103.59
17 1,1-Dichloroethene	96		2.711	2.711	(0.530)	271113		50.0000	46.247
18 Freon-113	151		2.735	2.735	(0.535)	247161		50.0000	61.345
19 Iodomethane	142		2.841	2.841	(0.556)	384518		50.0000	44.272
20 Carbon Disulfide	76		2.912	2.912	(0.570)	729077		50.0000	44.864

21 Methylene Chloride	84	3.102	3.102 (0.607)	299864	50.0000	42.815
22 Acetonitrile	41	2.960	2.960 (0.579)	326572	500.000	752.02
23 Acrylonitrile	53	3.279	3.279 (0.641)	189183	100.000	90.667

Data File: \\cansvr11\dd\chem\MSV\A3UX10.I\PI0110A.B\UXX7992.D
 Report Date: 10-Jan-2011 10:32

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.338	3.338	(0.653)	748026	50.0000	45.376
25 trans-1,2-Dichloroethene	96	3.338	3.338	(0.653)	294957	50.0000	44.050
26 Hexane	86	3.575	3.575	(0.699)	70728	50.0000	58.755
27 Vinyl acetate	43	3.705	3.705	(0.725)	316755	50.0000	43.962
28 1,1-Dichloroethane	63	3.681	3.681	(0.720)	499864	50.0000	46.914
29 tert-Butyl Alcohol	59	3.173	3.173	(0.621)	389883	1000.00	1281.1
30 2-Butanone	43	4.143	4.143	(0.810)	235413	100.000	111.84
32 cis-1,2-dichloroethene	96	4.155	4.155	(0.813)	334278	50.0000	49.596
33 2,2-Dichloropropane	77	4.167	4.167	(0.815)	309604	50.0000	51.938
34 Bromochloromethane	128	4.344	4.344	(0.850)	164802	50.0000	50.842
35 Chloroform	83	4.403	4.403	(0.861)	511043	50.0000	50.659
36 Tetrahydrofuran	42	4.391	4.391	(0.859)	72709	50.0000	50.343
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	417444	50.0000	53.993
38 1,1-Dichloropropene	75	4.723	4.723	(0.924)	428451	50.0000	55.349
39 Carbon Tetrachloride	117	4.735	4.735	(0.926)	370930	50.0000	62.567
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	389935	50.0000	53.966
41 Benzene	78	4.888	4.888	(0.956)	1306857	50.0000	51.387
42 Trichloroethene	130	5.433	5.433	(1.062)	330787	50.0000	51.102
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	296176	50.0000	51.115
44 1,4-Dioxane	88	5.717	5.717	(1.118)	156856	2500.00	4393.1
45 Dibromomethane	93	5.705	5.705	(1.116)	175750	50.0000	54.262
46 Bromodichloromethane	83	5.835	5.835	(1.141)	352142	50.0000	54.265
47 2-Chloroethyl vinyl ether	63	6.083	6.083	(1.190)	304648	100.000	94.478
48 cis-1,3-Dichloropropene	75	6.225	6.225	(1.218)	416494	50.0000	53.671
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	430501	100.000	105.70
50 Toluene	91	6.533	6.533	(0.839)	1356306	50.0000	48.198
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	351217	50.0000	50.240
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	300867	50.0000	42.258
53 1,1,2-Trichloroethane	97	6.876	6.876	(0.883)	253599	50.0000	47.816
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	445077	50.0000	47.612
55 Tetrachloroethene	164	7.042	7.042	(0.904)	286886	50.0000	49.943
56 2-Hexanone	43	7.101	7.101	(0.912)	268981	100.000	92.297
57 Dibromochloromethane	129	7.243	7.243	(0.930)	248551	50.0000	51.399
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	248748	50.0000	49.441
59 Chlorobenzene	112	7.823	7.823	(1.005)	863841	50.0000	46.848
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	289736	50.0000	49.826
61 Ethylbenzene	106	7.918	7.918	(1.017)	456961	50.0000	47.723
62 m + p-Xylene	106	8.024	8.024	(1.030)	1178973	100.000	97.588
64 Xylene-o	106	8.403	8.403	(1.079)	556420	50.0000	47.525
65 Styrene	104	8.415	8.415	(1.081)	884612	50.0000	48.996
66 Bromoform	173	8.592	8.592	(1.103)	149521	50.0000	47.350
67 Isopropylbenzene	105	8.758	8.758	(1.125)	1430233	50.0000	49.327
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	330679	50.0000	44.871
69 1,4-Dichloro-2-butene	53	9.077	9.077	(0.904)	62871	50.0000	54.668
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	108270	50.0000	46.683
71 Bromobenzene	156	9.053	9.053	(0.902)	371989	50.0000	43.228
72 n-Propylbenzene	120	9.160	9.160	(0.913)	403862	50.0000	46.438
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	354946	50.0000	44.116
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	1228882	50.0000	46.526
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	371609	50.0000	44.674
76 tert-Butylbenzene	119	9.645	9.645	(0.961)	1163775	50.0000	52.129
77 1,2,4-Trimethylbenzene	105	9.692	9.692	(0.966)	1249501	50.0000	46.552

78 sec-Butylbenzene	105	9.870	9.870 (0.983)	1448387	50.0000	48.461
79 4-Isopropyltoluene	119	10.000	10.000 (0.996)	1249724	50.0000	49.128

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
80 1,3-Dichlorobenzene	146	9.976	9.976	(0.994)	732308	50.0000	44.890
81 1,4-Dichlorobenzene	146	10.059	10.059	(1.002)	766264	50.0000	44.824
82 n-Butylbenzene	91	10.414	10.414	(1.038)	994266	50.0000	49.723
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	719868	50.0000	46.567
84 1,2-Dibromo-3-chloropropane	157	11.195	11.195	(1.116)	63523	50.0000	56.560
85 1,2,4-Trichlorobenzene	180	12.035	12.035	(1.199)	456600	50.0000	49.558
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	185920	50.0000	55.339
87 Naphthalene	128	12.284	12.284	(1.224)	1075000	50.0000	46.896
88 1,2,3-Trichlorobenzene	180	12.532	12.532	(1.249)	444161	50.0000	52.573
98 Cyclohexane	56	4.652	4.652	(0.910)	540315	50.0000	60.117
143 Methyl Acetate	43	3.007	3.007	(0.588)	400092	100.000	94.336
144 Methylcyclohexane	83	5.610	5.610	(1.097)	544042	50.0000	63.669
141 1,3,5-Trichlorobenzene	180	11.420	11.420	(1.138)	517740	50.0000	50.575
149 Vinyl Acetate-86	86	3.705	3.705	(0.725)	38134	50.0000	44.452

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX7992.D Calibration Time: 10:13
 Lab Smp Id: 50NG-CC
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,2-8260.SUB,1904,2

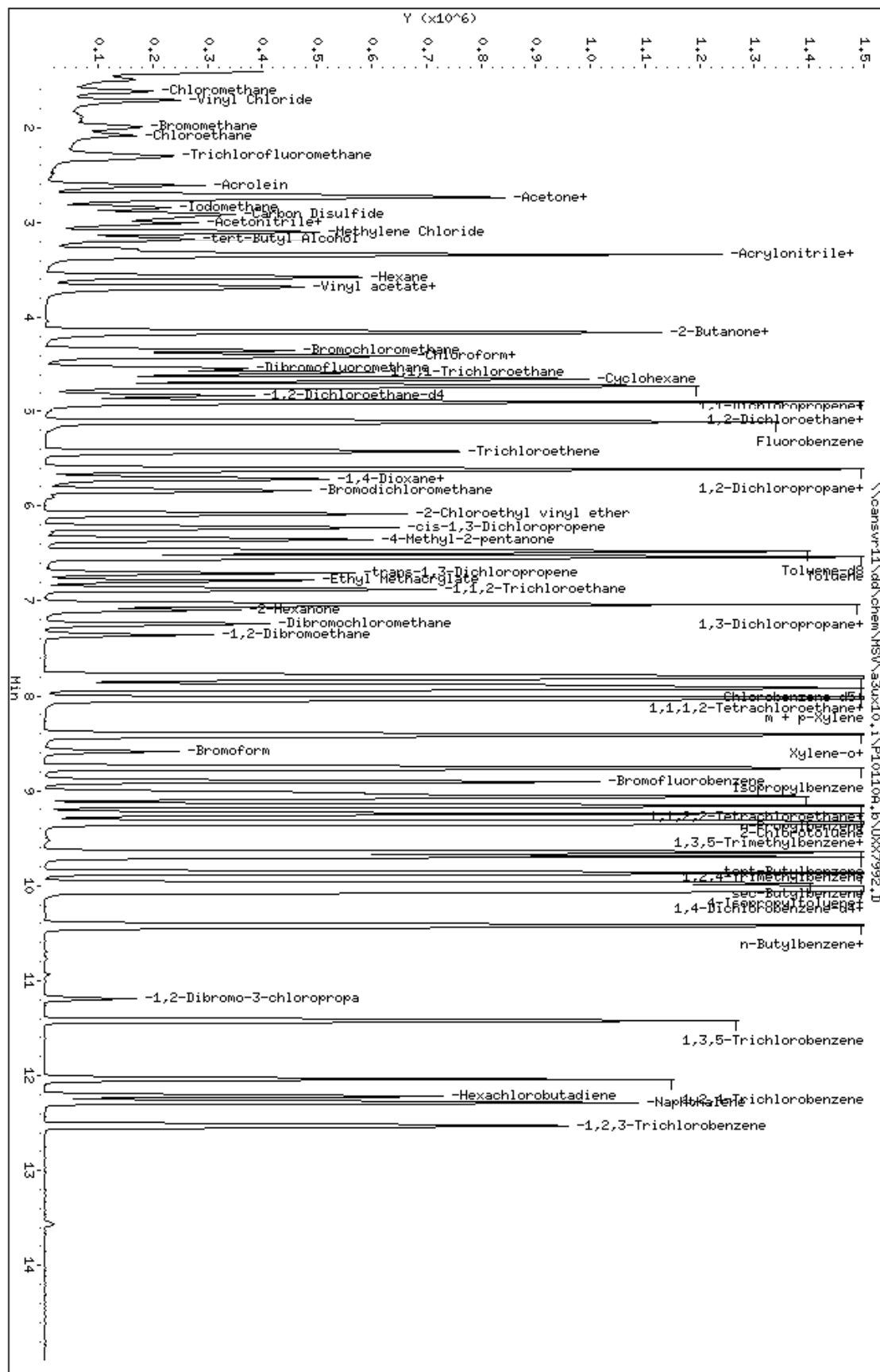
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Fluorobenzene	1133320	566660	2266640	1370072	20.89
2 Chlorobenzene-d5	909716	454858	1819432	1084996	19.27
3 1,4-Dichlorobenze	529030	264515	1058060	659942	24.75

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101109.b\UX7992.D
 Date : 10-JAN-2011 09:51
 Client ID:
 Sample Info: SONG-CC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7993.D
 Report Date: 10-Jan-2011 10:28

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux10.i Injection Date: 10-JAN-2011 10:13
 Lab File ID: UXX7993.D Init. Cal. Date(s): 14-NOV-2010 29-DEC-2010
 Analysis Type: WATER Init. Cal. Times: 16:46 11:20
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
14 Dichlorofluoromethane	0.36697	0.36008	0.36008	0.010	1.87785	50.00000	Averaged
89 Ethyl Ether	0.18782	0.16431	0.16431	0.010	12.51754	50.00000	Averaged
91 3-Chloropropene	0.11907	0.10704	0.10704	0.010	10.10501	50.00000	Averaged
92 Isopropyl Ether	0.20923	0.19675	0.19675	0.010	5.96378	50.00000	Averaged
93 2-Chloro-1,3-butadiene	0.34588	0.32304	0.32304	0.010	6.60409	50.00000	Averaged
94 Propionitrile	0.02458	0.02463	0.02463	0.010	-0.23064	50.00000	Averaged
95 Ethyl Acetate	0.16404	0.14965	0.14965	0.010	8.77274	50.00000	Averaged
96 Methacrylonitrile	0.12142	0.10855	0.10855	0.010	10.59668	50.00000	Averaged
97 Isobutanol	0.00738	0.00603	0.00603	0.010	18.26223	50.00000	Averaged<-
99 n-Butanol	0.00575	0.00401	0.00401	0.010	30.36785	50.00000	Averaged<-
100 Methyl Methacrylate	0.14647	0.12851	0.12851	0.010	12.26004	50.00000	Averaged
101 2-Nitropropane	100	85.95380	0.03655	0.010	14.04620	0.000e+000	Wt Linear
103 Cyclohexanone	0.01839	0.01620	0.01620	0.010	11.90179	50.00000	Averaged
146 2-Methylnaphthalene	0.35905	0.35152	0.35152	0.010	2.09775	50.00000	Averaged
153 t-Butyl ethyl ether	0.68257	0.58275	0.58275	0.010	14.62387	50.00000	Averaged
154 t-Amyl methyl ether	0.63044	0.51982	0.51982	0.010	17.54677	50.00000	Averaged
155 1,2,3-Trimethylbenzene	1.82411	1.89751	1.89751	0.010	-4.02432	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7993.D
 Report Date: 10-Jan-2011 10:28

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7993.D
 Lab Smp Id: 50NG-A9CC
 Inj Date : 10-JAN-2011 10:13
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info : 50NG-A9CC
 Misc Info : P10110A,8260LLUX10,3-IX.SUB,1904,2
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:28 quayler Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-IX.SUB
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
	MASS							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96		5.113	5.113	(1.000)	1133320		50.0000	
* 2 Chlorobenzene-d5	117		7.787	7.787	(1.000)	909716		50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.035	10.035	(1.000)	529030		50.0000	
14 Dichlorofluoromethane	67		2.238	2.238	(0.438)	408083		50.0000	49.061
89 Ethyl Ether	59		2.510	2.510	(0.491)	186212		50.0000	43.741
91 3-Chloropropene	76		3.007	3.007	(0.588)	121313		50.0000	44.947
92 Isopropyl Ether	87		3.728	3.728	(0.729)	1114889		250.000	235.09
93 2-Chloro-1,3-butadiene	53		3.752	3.752	(0.734)	366106		50.0000	46.698
94 Propionitrile	54		4.190	4.190	(0.820)	55835		100.000	100.23
95 Ethyl Acetate	43		4.190	4.190	(0.820)	339198		100.000	91.227
96 Methacrylonitrile	41		4.320	4.320	(0.845)	123021		50.0000	44.702
97 Isobutanol	41		4.758	4.758	(0.611)	109716		1000.00	817.38
99 n-Butanol	56		5.314	5.314	(0.682)	72891		1000.00	696.32
100 Methyl Methacrylate	41		5.693	5.693	(1.113)	145645		50.0000	43.870
101 2-Nitropropane	41		6.012	6.012	(1.176)	82847		100.000	85.954
103 Cyclohexanone	55		8.840	8.840	(0.881)	85727		500.000	440.49
146 2-Methylnaphthalene	142		13.562	13.562	(1.351)	371929		100.000	97.902
153 t-Butyl ethyl ether	59		4.024	4.024	(0.787)	660441		50.0000	42.688
154 t-Amyl methyl ether	73		4.971	4.971	(0.972)	589122		50.0000	41.227

155	1,2,3-Trimethylbenzene	105	10.106	10.106 (1.007)	1003842	50.0000	52.012
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Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7993.D
 Report Date: 10-Jan-2011 10:28

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX7993.D Calibration Time: 09:51
 Lab Smp Id: 50NG-A9CC
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,3-IX.SUB,1904,2

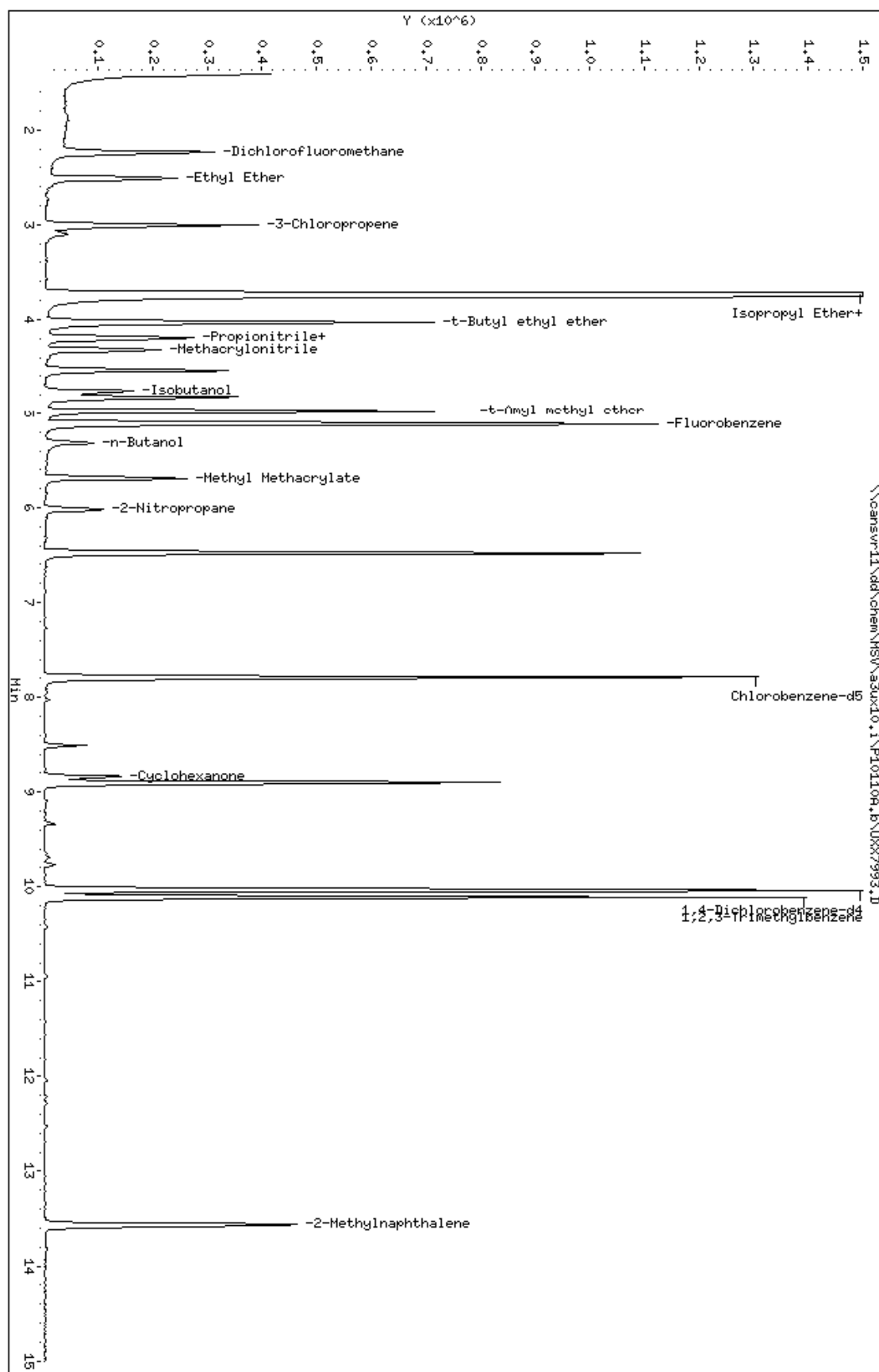
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1133320	-17.28
2 Chlorobenzene-d5	1084996	542498	2169992	909716	-16.15
3 1,4-Dichlorobenze	659942	329971	1319884	529030	-19.84

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33x10.i\P101109.b\UX7993.D
 Date : 10-JAN-2011 10:13
 Client ID:
 Sample Info: SONG-89CC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18



RAW QC DATA

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\BFB3989.D
 Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
 Inj Date : 29-DEC-2010 09:10
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info :
 Misc Info : P01229A-IC,BFBUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\BFBUX10.m
 Meth Date : 29-Apr-2010 09:15 quayler Quant Type: ESTD
 Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
 Als bottle: 25 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

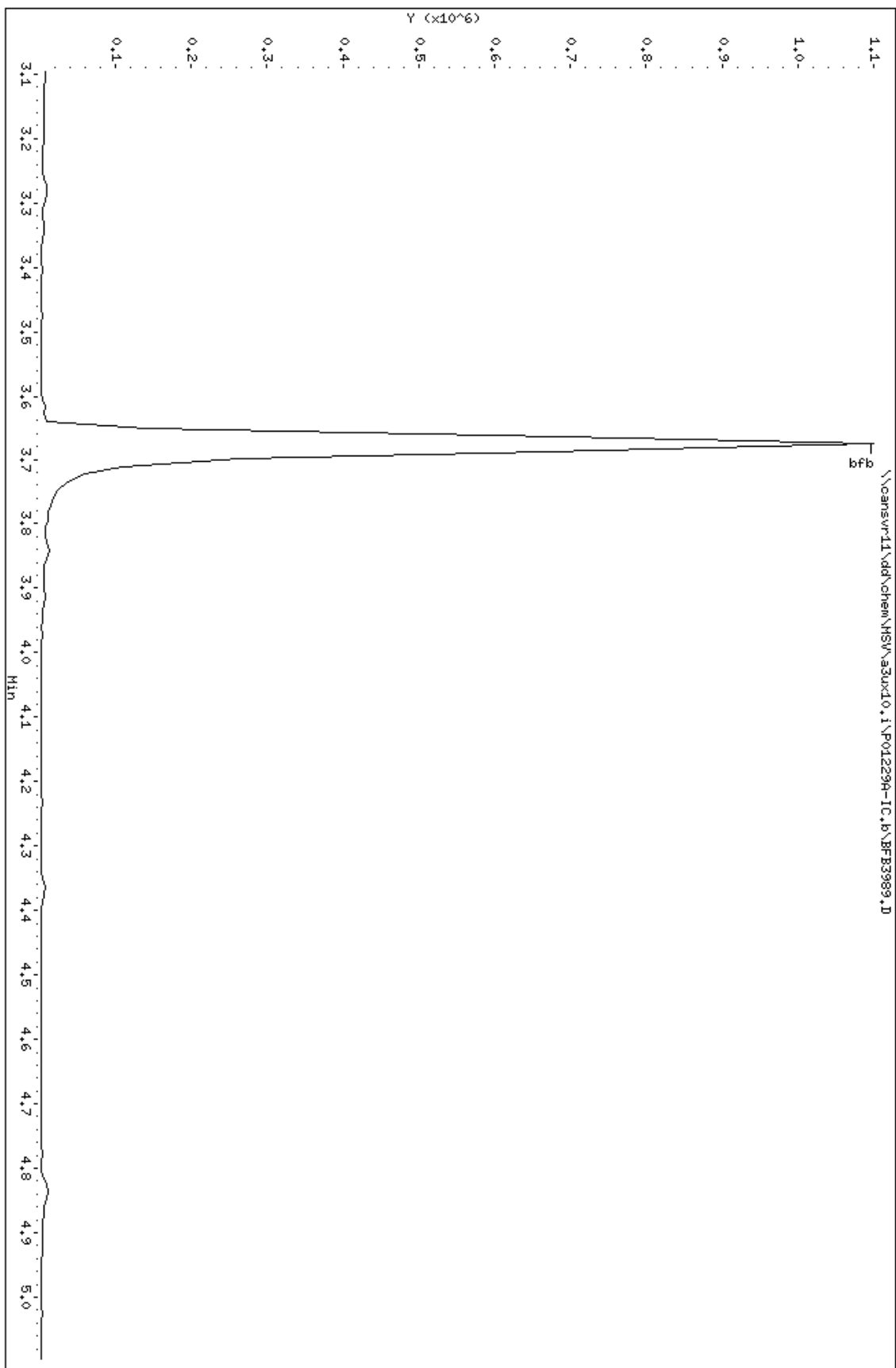
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
				ON-COL		FINAL			
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
3.676	3.900	-0.224	95	160640			100.00-	100.00	100.00
3.676	3.900	-0.224	50	29560			15.00-	40.00	18.40
3.676	3.900	-0.224	75	80224			30.00-	60.00	49.94
3.676	3.900	-0.224	96	10945			5.00-	9.00	6.81
3.676	3.900	-0.224	173	242			0.00-	2.00	0.16
3.676	3.900	-0.224	174	152576			50.00-	100.00	94.98
3.676	3.900	-0.224	175	10967			5.00-	9.00	7.19
3.676	3.900	-0.224	176	148672			95.00-	101.00	97.44
3.676	3.900	-0.224	177	10016			5.00-	9.00	6.74

Data File: \\cansvr11\dd\chem\HSV\33x10.i\F01229a-1C.b\BFB3989.D
 Date : 29-DEC-2010 09:10
 Client ID: 50NG BFB
 Sample Info:
 Volume Injected (uL): 1.0
 Column phase: DB624 20H

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18

Page 1



Date : 29-DEC-2010 09:10

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

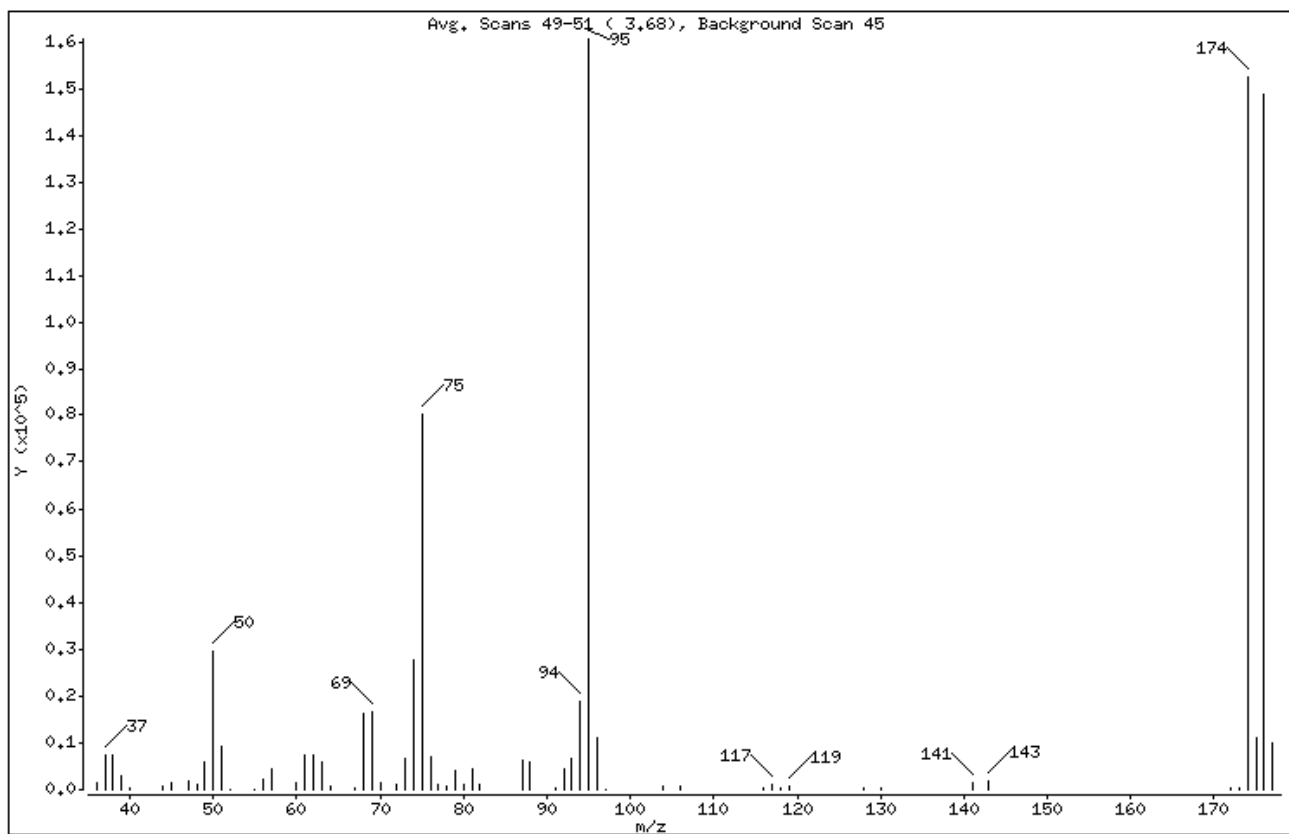
Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.40
75	30.00 - 60.00% of mass 95	49.94
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.15 (0.16)
174	50.00 - 100.00% of mass 95	94.98
175	5.00 - 9.00% of mass 174	6.83 (7.19)
176	95.00 - 101.00% of mass 174	92.55 (97.44)
177	5.00 - 9.00% of mass 176	6.24 (6.74)

Date : 29-DEC-2010 09:10

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB3989.D

Spectrum: Avg. Scans 49-51 (3,68), Background Scan 45

Location of Maximum: 95.00

Number of points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1471	60.00	1308	79.00	4149	117.00	1181
37.00	7522	61.00	7255	80.00	1189	118.00	415
38.00	7268	62.00	7385	81.00	4306	119.00	808
39.00	3008	63.00	5965	82.00	951	128.00	413
40.00	189	64.00	799	87.00	6421	130.00	279
44.00	898	67.00	266	88.00	6078	141.00	1642
45.00	1444	68.00	16408	91.00	386	143.00	1945
47.00	1753	69.00	16528	92.00	4278	172.00	394
48.00	1102	70.00	1310	93.00	6641	173.00	242
49.00	6075	72.00	981	94.00	18976	174.00	152576
50.00	29560	73.00	6730	95.00	160640	175.00	10967
51.00	9201	74.00	27872	96.00	10945	176.00	148672
52.00	172	75.00	80224	97.00	182	177.00	10016
55.00	169	76.00	7173	104.00	833		
56.00	2367	77.00	970	106.00	719		
57.00	4613	78.00	838	116.00	279		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\BFB3928.D
 Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
 Inj Date : 14-NOV-2010 16:17
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info :
 Misc Info : P01114A-IC,BFBUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\BFBUX10.m
 Meth Date : 29-Apr-2010 09:15 quayler Quant Type: ESTD
 Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
 Als bottle: 4 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

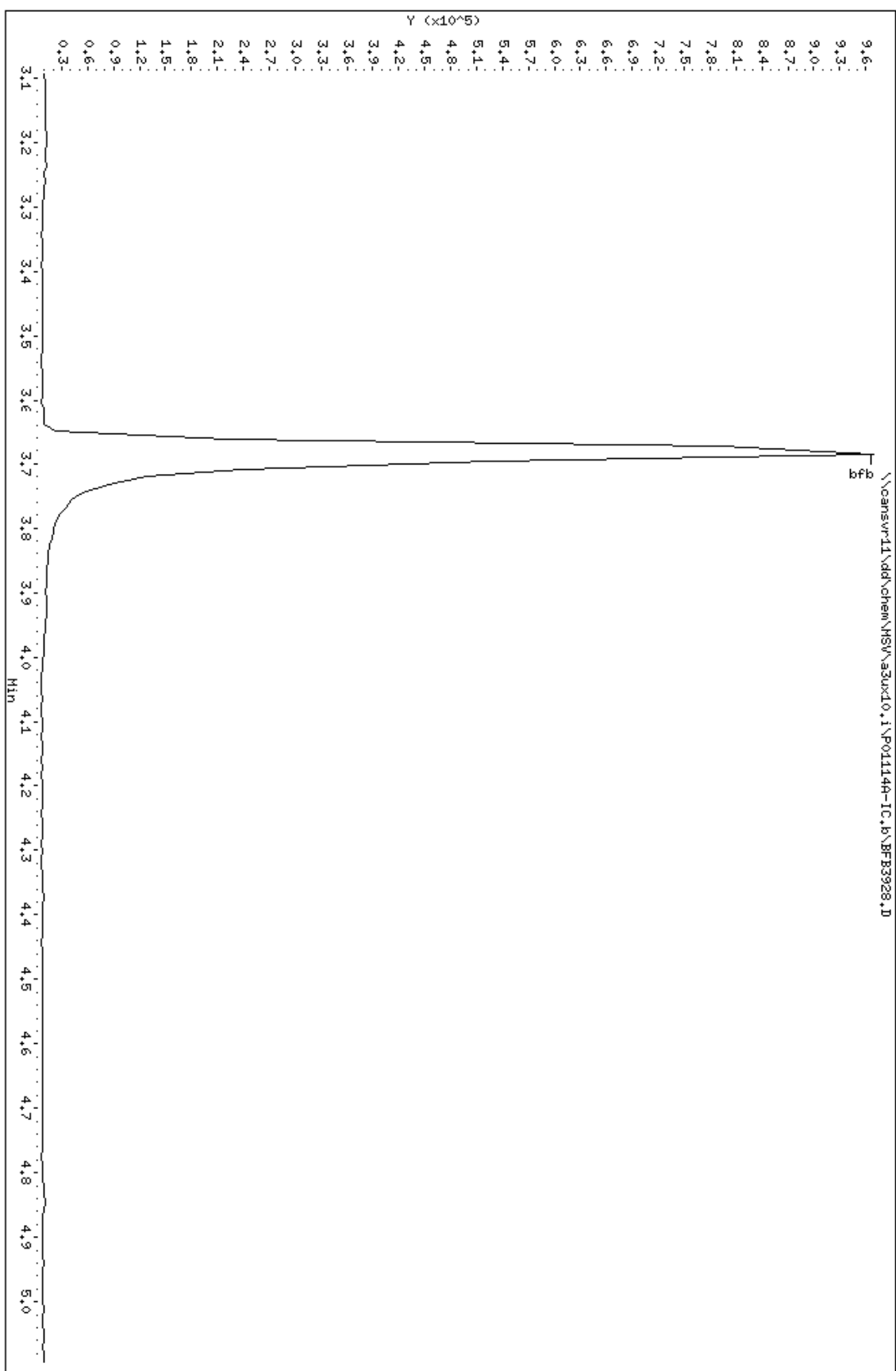
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
					ON-COL	FINAL			
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
3.685	3.900	-0.215	95	151232			100.00-	100.00	100.00
3.685	3.900	-0.215	50	26864			15.00-	40.00	17.76
3.685	3.900	-0.215	75	73336			30.00-	60.00	48.49
3.685	3.900	-0.215	96	10107			5.00-	9.00	6.68
3.685	3.900	-0.215	173	0	0.0	0.0	0.00-	2.00	0.00
3.685	3.900	-0.215	174	143744			50.00-	100.00	95.05
3.685	3.900	-0.215	175	10179			5.00-	9.00	7.08
3.685	3.900	-0.215	176	140544			95.00-	101.00	97.77
3.685	3.900	-0.215	177	9163			5.00-	9.00	6.52

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\F0114A-IC.b\BFB3928.D
Date : 14-NOV-2010 16:17
Client ID: 50NG BFB
Sample Info:
Volume Injected (uL): 1.0
Column phase: DB624 20H

Instrument: 33ux10.i
Operator: 1904
Column diameter: 0.18

Page 1



Date : 14-NOV-2010 16:17

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

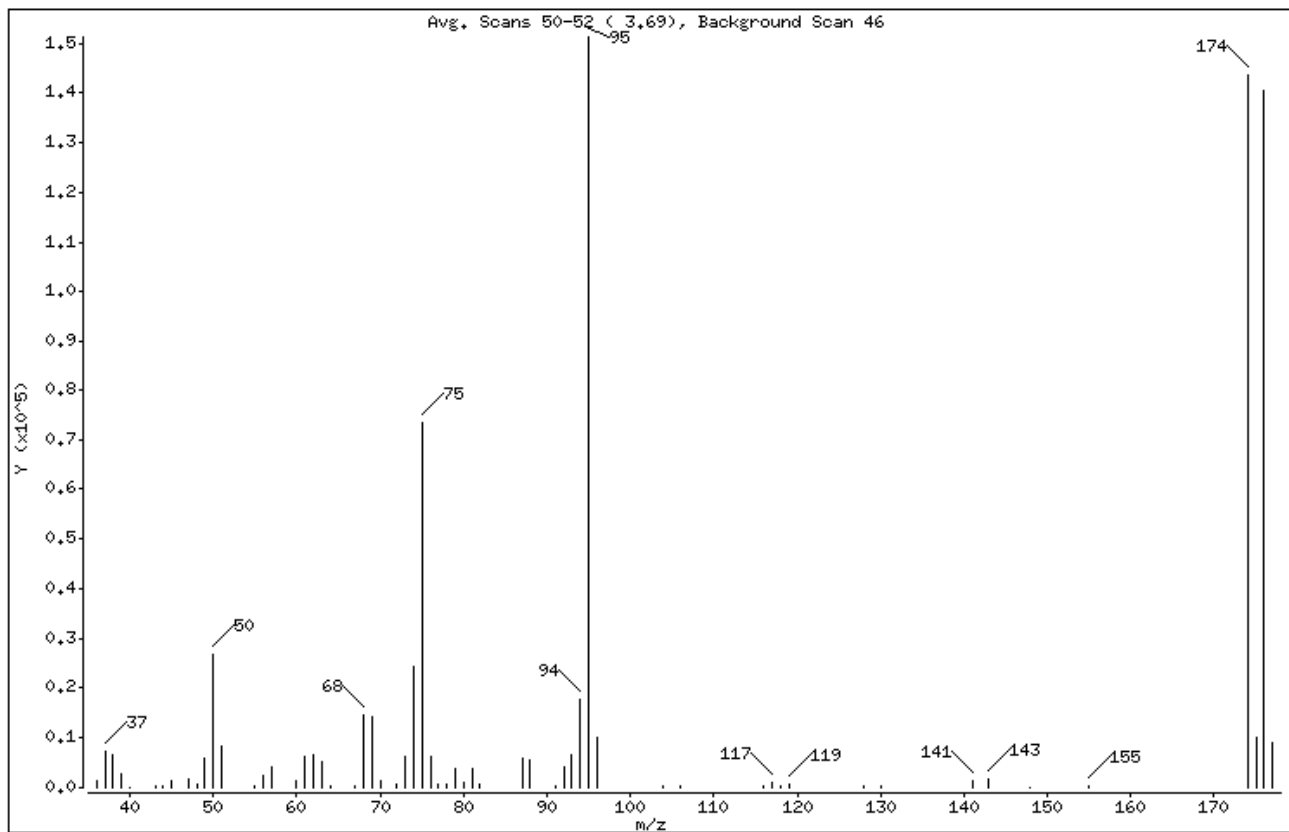
Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.76
75	30.00 - 60.00% of mass 95	48.49
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	95.05
175	5.00 - 9.00% of mass 174	6.73 (7.08)
176	95.00 - 101.00% of mass 174	92.93 (97.77)
177	5.00 - 9.00% of mass 176	6.06 (6.52)

Date : 14-NOV-2010 16:17

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB3928.D

Spectrum: Avg. Scans 50-52 (3.69), Background Scan 46

Location of Maximum: 95.00

Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1348	60.00	1218	79.00	3816	118.00	454
37.00	7165	61.00	6421	80.00	1134	119.00	605
38.00	6442	62.00	6740	81.00	3729	128.00	520
39.00	2831	63.00	5279	82.00	861	130.00	400
40.00	159	64.00	449	87.00	5869	141.00	1480
43.00	198	67.00	352	88.00	5723	143.00	1677
44.00	376	68.00	14465	91.00	483	148.00	169
45.00	1397	69.00	14408	92.00	4125	155.00	187
47.00	1632	70.00	1350	93.00	6432	174.00	143744
48.00	844	72.00	648	94.00	17584	175.00	10179
49.00	5752	73.00	6122	95.00	151232	176.00	140544
50.00	26864	74.00	24192	96.00	10107	177.00	9163
51.00	8350	75.00	73336	104.00	495		
55.00	463	76.00	6415	106.00	474		
56.00	2424	77.00	841	116.00	439		
57.00	4037	78.00	611	117.00	1063		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\BFB3997.D
 Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
 Inj Date : 10-JAN-2011 09:25
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info :
 Misc Info : P10110A,BFBUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\BFBUX10.m
 Meth Date : 29-Apr-2010 09:15 quayler Quant Type: ESTD
 Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
 Als bottle: 25 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

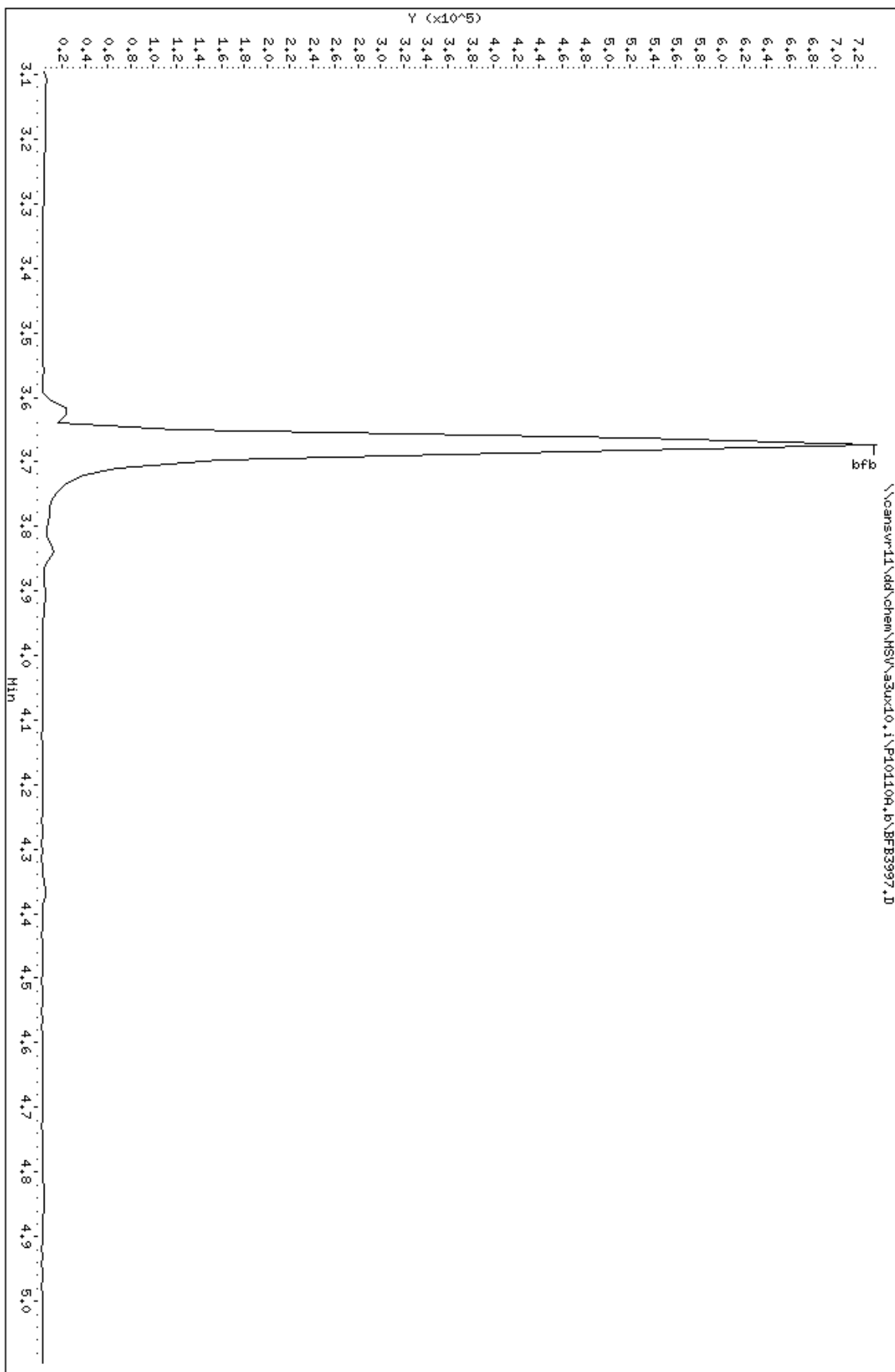
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS								
				ON-COL		FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb				CAS #: 460-00-4				
3.675	3.900	-0.225	95	113984			100.00- 100.00	100.00
3.675	3.900	-0.225	50	20320			15.00- 40.00	17.83
3.675	3.900	-0.225	75	53824			30.00- 60.00	47.22
3.675	3.900	-0.225	96	7502			5.00- 9.00	6.58
3.675	3.900	-0.225	173	187			0.00- 2.00	0.18
3.675	3.900	-0.225	174	104552			50.00- 100.00	91.73
3.675	3.900	-0.225	175	7628			5.00- 9.00	7.30
3.675	3.900	-0.225	176	103712			95.00- 101.00	99.20
3.675	3.900	-0.225	177	6987			5.00- 9.00	6.74

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101108.b\BFB397.D
Date : 10-JAN-2011 09:25
Client ID: 50NG BFB
Sample Info:
Volume Injected (uL): 1.0
Column phase: DB624 20M

Instrument: 33x10.i
Operator: 1904
Column diameter: 0.18

Page 1



Date : 10-JAN-2011 09:25

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

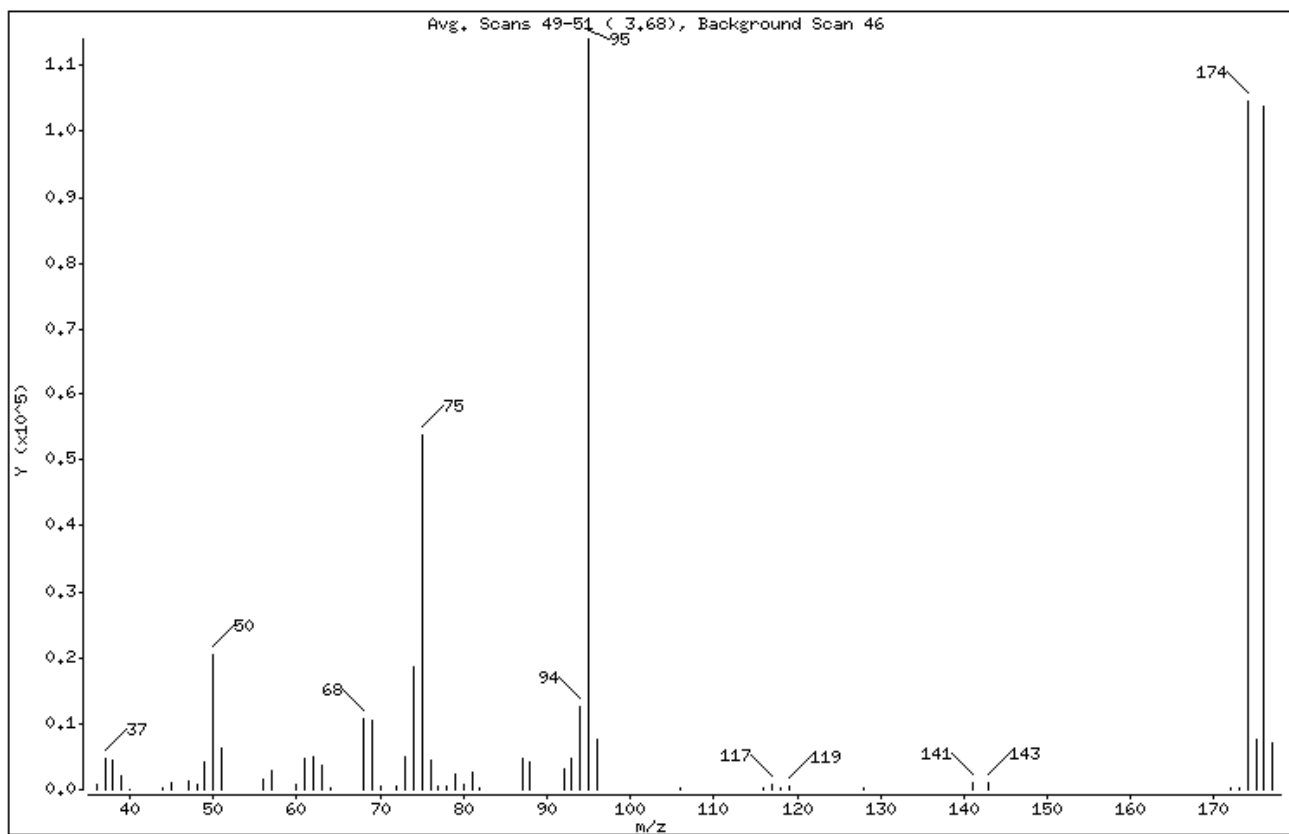
Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.83
75	30.00 - 60.00% of mass 95	47.22
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.16 (0.18)
174	50.00 - 100.00% of mass 95	91.73
175	5.00 - 9.00% of mass 174	6.69 (7.30)
176	95.00 - 101.00% of mass 174	90.99 (99.20)
177	5.00 - 9.00% of mass 176	6.13 (6.74)

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\BFB3997.D

Page 3

Date : 10-JAN-2011 09:25

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB3997.D

Spectrum: Avg. Scans 49-51 (3,68), Background Scan 46

Location of Maximum: 95.00

Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	881	60.00	669	78.00	403	117.00	705
37.00	4824	61.00	4753	79.00	2465	118.00	182
38.00	4502	62.00	4931	80.00	754	119.00	430
39.00	1985	63.00	3713	81.00	2498	128.00	198
40.00	16	64.00	365	82.00	389	141.00	1056
44.00	333	68.00	10634	87.00	4727	143.00	1143
45.00	973	69.00	10609	88.00	4092	172.00	281
47.00	1405	70.00	586	92.00	3272	173.00	187
48.00	839	72.00	404	93.00	4637	174.00	104552
49.00	4215	73.00	4876	94.00	12593	175.00	7628
50.00	20320	74.00	18552	95.00	113984	176.00	103712
51.00	6324	75.00	53824	96.00	7502	177.00	6987
56.00	1483	76.00	4543	106.00	182		
57.00	2757	77.00	443	116.00	176		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT	RECOVERY	METHOD
	RECOVERY	LIMITS	
Benzene	99	(83 - 112)	SW846 8260B
Acetone	103	(43 - 136)	SW846 8260B
Bromobenzene	84	(76 - 115)	SW846 8260B
Carbon disulfide	108	(62 - 142)	SW846 8260B
1,2-Dichloroethene (total)	97	(82 - 114)	SW846 8260B
Bromochloromethane	103	(77 - 120)	SW846 8260B
2-Butanone	108	(60 - 126)	SW846 8260B
Bromodichloromethane	109	(72 - 121)	SW846 8260B
Bromoform	88	(40 - 131)	SW846 8260B
Bromomethane	104	(11 - 185)	SW846 8260B
n-Butylbenzene	100	(66 - 125)	SW846 8260B
4-Methyl-2-pentanone	107	(63 - 128)	SW846 8260B
2-Hexanone	97	(55 - 133)	SW846 8260B
sec-Butylbenzene	95	(70 - 117)	SW846 8260B
tert-Butylbenzene	103	(71 - 115)	SW846 8260B
Xylenes (total)	97	(83 - 112)	SW846 8260B
Carbon tetrachloride	131 a	(66 - 128)	SW846 8260B
Chlorobenzene	92	(85 - 110)	SW846 8260B
Dibromochloromethane	99	(64 - 119)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	155 a	(74 - 151)	SW846 8260B
Methyl acetate	99	(58 - 131)	SW846 8260B
Chloroethane	112	(25 - 153)	SW846 8260B
Methyl tert-butyl ether (MTBE)	99	(52 - 144)	SW846 8260B
Cyclohexane	116	(54 - 121)	SW846 8260B
Methylcyclohexane	126	(56 - 127)	SW846 8260B
Chloroform	107	(79 - 117)	SW846 8260B
Chloromethane	80	(44 - 126)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(42 - 136)	SW846 8260B
2-Chlorotoluene	86	(76 - 116)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl tert-butyl ether	99	(52 - 144)	SW846 8260B
n-Hexane	133	(66 - 137)	SW846 8260B
4-Chlorotoluene	88	(77 - 115)	SW846 8260B
2-Chloroethyl vinyl ether	84	(52 - 131)	SW846 8260B
Acetonitrile	166	(15 - 184)	SW846 8260B
1,2-Dibromoethane	98	(79 - 113)	SW846 8260B
Acrolein	103	(51 - 170)	SW846 8260B
Vinyl acetate	94	(46 - 161)	SW846 8260B
Acrylonitrile	98	(66 - 132)	SW846 8260B
Dibromomethane	113	(81 - 120)	SW846 8260B
1,2-Dichlorobenzene	90	(81 - 110)	SW846 8260B
1,3-Dichlorobenzene	87	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	87	(82 - 110)	SW846 8260B
Iodomethane	119	(72 - 141)	SW846 8260B
Isopropyl ether	91	(77 - 118)	SW846 8260B
Dichlorodifluoromethane	82	(19 - 129)	SW846 8260B
1,1-Dichloroethane	99	(82 - 115)	SW846 8260B
1,2-Dichloroethane	119	(71 - 127)	SW846 8260B
cis-1,2-Dichloroethene	96	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	98	(83 - 117)	SW846 8260B
1,1-Dichloroethene	103	(78 - 131)	SW846 8260B
1,2-Dichloropropane	99	(81 - 115)	SW846 8260B
1,3-Dichloropropane	95	(79 - 116)	SW846 8260B
2,2-Dichloropropane	103	(50 - 129)	SW846 8260B
cis-1,3-Dichloropropene	101	(61 - 115)	SW846 8260B
trans-1,3-Dichloropropene	95	(58 - 117)	SW846 8260B
1,1-Dichloropropene	108	(83 - 114)	SW846 8260B
Ethylbenzene	96	(83 - 112)	SW846 8260B
Hexachlorobutadiene	105	(36 - 134)	SW846 8260B
Isopropylbenzene	100	(75 - 114)	SW846 8260B
p-Isopropyltoluene	99	(74 - 120)	SW846 8260B
Methylene chloride	97	(66 - 131)	SW846 8260B
Naphthalene	88	(32 - 141)	SW846 8260B
n-Propylbenzene	92	(74 - 121)	SW846 8260B
Styrene	101	(79 - 114)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(72 - 116)	SW846 8260B
1,1,2,2-Tetrachloroethane	84	(68 - 118)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tetrachloroethene	103	(79 - 114)	SW846 8260B
Toluene	85	(84 - 111)	SW846 8260B
1,2,3-Trichlorobenzene	102	(54 - 126)	SW846 8260B
1,2,4-Trichloro- benzene	101	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	113	(74 - 118)	SW846 8260B
1,1,2-Trichloroethane	94	(80 - 112)	SW846 8260B
Trichloroethene	105	(76 - 117)	SW846 8260B
Trichlorofluoromethane	138	(49 - 157)	SW846 8260B
1,2,3-Trichloropropane	87	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	93	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	90	(72 - 118)	SW846 8260B
Vinyl chloride	109	(53 - 127)	SW846 8260B
m-Xylene & p-Xylene	97	(83 - 113)	SW846 8260B
o-Xylene	98	(83 - 113)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10	9.9	ug/L	99	SW846 8260B
Acetone	20	21	ug/L	103	SW846 8260B
Bromobenzene	10	8.4	ug/L	84	SW846 8260B
Carbon disulfide	10	11	ug/L	108	SW846 8260B
1,2-Dichloroethene (total)	20	19	ug/L	97	SW846 8260B
Bromochloromethane	10	10	ug/L	103	SW846 8260B
2-Butanone	20	22	ug/L	108	SW846 8260B
Bromodichloromethane	10	11	ug/L	109	SW846 8260B
Bromoform	10	8.8	ug/L	88	SW846 8260B
Bromomethane	10	10	ug/L	104	SW846 8260B
n-Butylbenzene	10	10	ug/L	100	SW846 8260B
4-Methyl-2-pentanone	20	21	ug/L	107	SW846 8260B
2-Hexanone	20	19	ug/L	97	SW846 8260B
sec-Butylbenzene	10	9.5	ug/L	95	SW846 8260B
tert-Butylbenzene	10	10	ug/L	103	SW846 8260B
Xylenes (total)	30	29	ug/L	97	SW846 8260B
Carbon tetrachloride	10	13 a	ug/L	131	SW846 8260B
Chlorobenzene	10	9.2	ug/L	92	SW846 8260B
Dibromochloromethane	10	9.9	ug/L	99	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	16 a	ug/L	155	SW846 8260B
Methyl acetate	10	9.9	ug/L	99	SW846 8260B
Chloroethane	10	11	ug/L	112	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.9	ug/L	99	SW846 8260B
Cyclohexane	10	12	ug/L	116	SW846 8260B
Methylcyclohexane	10	13	ug/L	126	SW846 8260B
Chloroform	10	11	ug/L	107	SW846 8260B
Chloromethane	10	8.0	ug/L	80	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.5	ug/L	95	SW846 8260B
2-Chlorotoluene	10	8.6	ug/L	86	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methyl tert-butyl ether	10	9.9	ug/L	99	SW846 8260B
n-Hexane	10	13	ug/L	133	SW846 8260B
4-Chlorotoluene	10	8.8	ug/L	88	SW846 8260B
2-Chloroethyl vinyl ether	10	8.4	ug/L	84	SW846 8260B
Acetonitrile	30	50	ug/L	166	SW846 8260B
1,2-Dibromoethane	10	9.8	ug/L	98	SW846 8260B
Acrolein	30	31	ug/L	103	SW846 8260B
Vinyl acetate	10	9.4	ug/L	94	SW846 8260B
Acrylonitrile	30	29	ug/L	98	SW846 8260B
Dibromomethane	10	11	ug/L	113	SW846 8260B
1,2-Dichlorobenzene	10	9.0	ug/L	90	SW846 8260B
1,3-Dichlorobenzene	10	8.7	ug/L	87	SW846 8260B
1,4-Dichlorobenzene	10	8.7	ug/L	87	SW846 8260B
Iodomethane	10	12	ug/L	119	SW846 8260B
Isopropyl ether	10	9.1	ug/L	91	SW846 8260B
Dichlorodifluoromethane	10	8.2	ug/L	82	SW846 8260B
1,1-Dichloroethane	10	9.9	ug/L	99	SW846 8260B
1,2-Dichloroethane	10	12	ug/L	119	SW846 8260B
cis-1,2-Dichloroethene	10	9.6	ug/L	96	SW846 8260B
trans-1,2-Dichloroethene	10	9.8	ug/L	98	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	103	SW846 8260B
1,2-Dichloropropane	10	9.9	ug/L	99	SW846 8260B
1,3-Dichloropropane	10	9.5	ug/L	95	SW846 8260B
2,2-Dichloropropane	10	10	ug/L	103	SW846 8260B
cis-1,3-Dichloropropene	10	10	ug/L	101	SW846 8260B
trans-1,3-Dichloropropene	10	9.5	ug/L	95	SW846 8260B
1,1-Dichloropropene	10	11	ug/L	108	SW846 8260B
Ethylbenzene	10	9.6	ug/L	96	SW846 8260B
Hexachlorobutadiene	10	11	ug/L	105	SW846 8260B
Isopropylbenzene	10	10	ug/L	100	SW846 8260B
p-Isopropyltoluene	10	9.9	ug/L	99	SW846 8260B
Methylene chloride	10	9.7	ug/L	97	SW846 8260B
Naphthalene	10	8.8	ug/L	88	SW846 8260B
n-Propylbenzene	10	9.2	ug/L	92	SW846 8260B
Styrene	10	10	ug/L	101	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.6	ug/L	96	SW846 8260B
1,1,2,2-Tetrachloroethane	10	8.4	ug/L	84	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tetrachloroethene	10	10	ug/L	103	SW846 8260B
Toluene	10	8.5	ug/L	85	SW846 8260B
1,2,3-Trichlorobenzene	10	10	ug/L	102	SW846 8260B
1,2,4-Trichloro- benzene	10	10	ug/L	101	SW846 8260B
1,1,1-Trichloroethane	10	11	ug/L	113	SW846 8260B
1,1,2-Trichloroethane	10	9.4	ug/L	94	SW846 8260B
Trichloroethene	10	11	ug/L	105	SW846 8260B
Trichlorofluoromethane	10	14	ug/L	138	SW846 8260B
1,2,3-Trichloropropane	10	8.7	ug/L	87	SW846 8260B
1,2,4-Trimethylbenzene	10	9.3	ug/L	93	SW846 8260B
1,3,5-Trimethylbenzene	10	9.0	ug/L	90	SW846 8260B
Vinyl chloride	10	11	ug/L	109	SW846 8260B
m-Xylene & p-Xylene	20	19	ug/L	97	SW846 8260B
o-Xylene	10	9.8	ug/L	98	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7994.D
 Report Date: 10-Jan-2011 10:51

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7994.D
 Lab Smp Id: LCS
 Inj Date : 10-JAN-2011 10:34
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info : LCS
 Misc Info : P10110A,8260LLUX10,,1904,3
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 3 QC Sample: METHSPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL		
	MASS					(ng)	(ug/L)		
=====	=====	=====	=====	=====	=====	=====	=====		
* 1 Fluorobenzene	96	5.113	5.113 (1.000)		1162967	50.0000			
* 2 Chlorobenzene-d5	117	7.787	7.787 (1.000)		1040159	50.0000			
* 3 1,4-Dichlorobenzene-d4	152	10.035	10.036 (1.000)		657706	50.0000			
\$ 4 Dibromofluoromethane	113	4.533	4.533 (0.887)		233807	50.9580	10.192		
\$ 5 1,2-Dichloroethane-d4	65	4.817	4.817 (0.942)		291186	54.2189	10.844		
\$ 6 Toluene-d8	98	6.474	6.474 (0.831)		955359	41.9848	8.397		
\$ 7 Bromofluorobenzene	95	8.900	8.900 (1.143)		411325	51.4884	10.298		
8 Dichlorodifluoromethane	85	1.492	1.492 (0.292)		168310	41.0640	8.213		
9 Chloromethane	50	1.611	1.611 (0.315)		215794	40.1115	8.022		
10 Vinyl Chloride	62	1.705	1.717 (0.334)		271612	54.2763	10.855		
11 Bromomethane	94	1.989	1.989 (0.389)		126088	51.8233	10.365		
12 Chloroethane	64	2.084	2.084 (0.408)		171971	56.1182	11.224		
13 Trichlorofluoromethane	101	2.297	2.297 (0.449)		308384	68.7990	13.760		
15 Acrolein	56	2.604	2.605 (0.509)		117241	153.976	30.795		
16 Acetone	43	2.735	2.735 (0.535)		148535	103.364	20.673		
17 1,1-Dichloroethene	96	2.711	2.711 (0.530)		257213	51.6899	10.338		
18 Freon-113	151	2.735	2.735 (0.535)		265295	77.5721	15.514		
19 Iodomethane	142	2.841	2.841 (0.556)		438683	59.5026	11.900		
20 Carbon Disulfide	76	2.912	2.912 (0.570)		746559	54.1214	10.824		
21 Methylene Chloride	84	3.101	3.102 (0.607)		288005	48.4447	9.689		

22 Acetonitrile	41	2.959	2.960 (0.579)	93526	248.790	49.758
23 Acrylonitrile	53	3.279	3.279 (0.641)	261097	147.416	29.483

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7994.D
Report Date: 10-Jan-2011 10:51

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
			(ng)	(ug/L)					
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.338	3.338	(0.653)	692938	49.5203	9.904		
25 trans-1,2-Dichloroethene	96	3.338	3.338	(0.653)	278817	49.0550	9.811		
26 Hexane	86	3.563	3.575	(0.697)	68091	66.6378	13.328		
27 Vinyl acetate	43	3.729	3.705	(0.729)	675399	110.431	22.086		
28 1,1-Dichloroethane	63	3.669	3.681	(0.718)	447026	49.4262	9.885		
29 tert-Butyl Alcohol	59	3.172	3.173	(0.621)	350097	1355.24	271.05		
30 2-Butanone	43	4.143	4.143	(0.810)	192824	107.922	21.584		
M 31 1,2-Dichloroethene (total)	96				554421	97.2273	19.445		
32 cis-1,2-dichloroethene	96	4.155	4.155	(0.813)	275604	48.1723	9.634		
33 2,2-Dichloropropane	77	4.155	4.167	(0.813)	259991	51.3823	10.276		
34 Bromochloromethane	128	4.344	4.344	(0.850)	141139	51.2964	10.259		
35 Chloroform	83	4.403	4.403	(0.861)	456750	53.3400	10.668		
36 Tetrahydrofuran	42	4.391	4.391	(0.859)	58110	47.3998	9.480		
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	371582	56.6198	11.324		
38 1,1-Dichloropropene	75	4.711	4.723	(0.921)	356075	54.1912	10.838		
39 Carbon Tetrachloride	117	4.723	4.735	(0.924)	330115	65.5985	13.120		
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	363754	59.3077	11.862		
41 Benzene	78	4.888	4.888	(0.956)	1065676	49.3654	9.873		
42 Trichloroethene	130	5.421	5.433	(1.060)	289024	52.6017	10.520		
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	244661	49.7437	9.949		
44 1,4-Dioxane	88	Compound Not Detected.							
45 Dibromomethane	93	5.705	5.705	(1.116)	154803	56.3064	11.261		
46 Bromodichloromethane	83	5.835	5.835	(1.141)	299298	54.3351	10.867		
47 2-Chloroethyl vinyl ether	63	6.083	6.083	(1.190)	108975	41.7954	8.359		
48 cis-1,3-Dichloropropene	75	6.225	6.225	(1.218)	334172	50.7311	10.146		
49 4-Methyl-2-pentanone	43	6.355	6.356	(1.243)	371039	107.320	21.464		
50 Toluene	91	6.533	6.533	(0.839)	1149742	42.6183	8.524		
51 trans-1,3-Dichloropropene	75	6.710	6.711	(0.862)	319593	47.6871	9.537		
52 Ethyl Methacrylate	69	Compound Not Detected.							
53 1,1,2-Trichloroethane	97	6.876	6.876	(0.883)	240190	47.2400	9.448		
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	423509	47.2582	9.452		
55 Tetrachloroethene	164	7.042	7.042	(0.904)	283343	51.4523	10.290		
56 2-Hexanone	43	7.089	7.101	(0.910)	271097	96.8578	19.372		
57 Dibromochloromethane	129	7.243	7.243	(0.930)	229868	49.5846	9.917		
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	237214	49.1807	9.836		
59 Chlorobenzene	112	7.823	7.823	(1.005)	817169	46.2267	9.245		
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	267782	48.0353	9.607		
61 Ethylbenzene	106	7.917	7.918	(1.017)	441541	48.1004	9.620		
62 m + p-Xylene	106	8.024	8.024	(1.030)	1122999	96.9614	19.392		
M 63 Xylenes (total)	106				1670595	145.748	29.150		
64 Xylene-o	106	8.403	8.403	(1.079)	547596	48.7871	9.757		
65 Styrene	104	8.414	8.415	(1.081)	875376	50.5740	10.115		
66 Bromoform	173	8.592	8.592	(1.103)	132125	43.8748	8.775		
67 Isopropylbenzene	105	8.758	8.758	(1.125)	1383954	49.7886	9.958		
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	308901	42.0585	8.412		
69 1,4-Dichloro-2-butene	53	9.077	9.077	(0.904)	142644	112.096	22.419		
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	101023	43.7067	8.741		
71 Bromobenzene	156	9.053	9.053	(0.902)	362143	42.2273	8.445		
72 n-Propylbenzene	120	9.160	9.160	(0.913)	400858	46.2488	9.250		
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	343004	42.7772	8.555		
74 1,3,5-Trimethylbenzene	105	9.325	9.326	(0.929)	1182746	44.9313	8.986		
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	363211	43.8128	8.762		

76 tert-Butylbenzene	119	9.645	9.645 (0.961)	1140924	51.2789	10.256
77 1,2,4-Trimethylbenzene	105	9.692	9.692 (0.966)	1237724	46.2704	9.254

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7994.D
 Report Date: 10-Jan-2011 10:51

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
			(ng)	(ug/L)				
=====	=====	=====	=====	=====	=====	=====	=====	=====
78 sec-Butylbenzene	105	9.858	9.870 (0.982)	1410902	47.3677	9.474		
79 4-Isopropyltoluene	119	10.000	10.000 (0.996)	1258629	49.6466	9.929		
80 1,3-Dichlorobenzene	146	9.976	9.976 (0.994)	704082	43.3062	8.661		
81 1,4-Dichlorobenzene	146	10.059	10.059 (1.002)	740169	43.4447	8.689		
82 n-Butylbenzene	91	10.414	10.414 (1.038)	996092	49.9834	9.997		
83 1,2-Dichlorobenzene	146	10.426	10.426 (1.039)	691862	44.9078	8.982		
84 1,2-Dibromo-3-chloropropane	157	11.195	11.195 (1.116)	53429	47.7341	9.547		
85 1,2,4-Trichlorobenzene	180	12.035	12.035 (1.199)	462322	50.3500	10.070		
86 Hexachlorobutadiene	225	12.213	12.213 (1.217)	176564	52.7331	10.547		
87 Naphthalene	128	12.284	12.284 (1.224)	996607	43.8064	8.761		
88 1,2,3-Trichlorobenzene	180	12.532	12.532 (1.249)	428482	50.8895	10.178		
14 Dichlorofluoromethane	67	Compound Not Detected.						
89 Ethyl Ether	59	2.510	2.510 (0.491)	208383	47.7014	9.540		
91 3-Chloropropene	76	2.912	3.007 (0.570)	746559	269.555	53.911		
92 Isopropyl Ether	87	3.729	3.728 (0.729)	222594	45.7406	9.148		
93 2-Chloro-1,3-butadiene	53	3.563	3.752 (0.697)	12778	1.58832	0.3177		
94 Propionitrile	54	Compound Not Detected.						
95 Ethyl Acetate	43	4.143	4.190 (0.810)	192824	50.5379	10.108		
96 Methacrylonitrile	41	Compound Not Detected.						
97 Isobutanol	41	4.758	4.758 (0.611)	341959	2228.09	445.62		
99 n-Butanol	56	5.113	5.314 (0.657)	7637	63.8065	12.761		
100 Methyl Methacrylate	41	5.610	5.693 (1.097)	361277	106.047	21.209		
101 2-Nitropropane	41	6.083	6.012 (1.190)	8263	13.1500	2.630		
103 Cyclohexanone	55	8.829	8.840 (0.880)	169886	702.143	140.43		
98 Cyclohexane	56	4.652	4.652 (0.910)	441392	57.8562	11.571		
143 Methyl Acetate	43	3.007	3.007 (0.588)	177722	49.3668	9.873		
144 Methylcyclohexane	83	5.610	5.610 (1.097)	457462	63.0710	12.614		
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.						
146 2-Methylnaphthalene	142	13.562	13.562 (1.351)	19843	4.20135	0.8403(a)		
149 Vinyl Acetate-86	86	3.705	3.705 (0.725)	34397	47.2358	9.447		
153 t-Butyl ethyl ether	59	Compound Not Detected.						
154 t-Amyl methyl ether	73	5.113	4.971 (1.000)	15466	1.05472	0.2109(a)		
155 1,2,3-Trimethylbenzene	105	10.106	10.106 (1.007)	1267881	52.8405	10.568		

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7994.D
 Report Date: 10-Jan-2011 10:51

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX7994.D Calibration Time: 09:51
 Lab Smp Id: LCS Level: LOW
 Analysis Type: VOA Sample Type: WATER
 Quant Type: ISTD
 Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,,1904,3

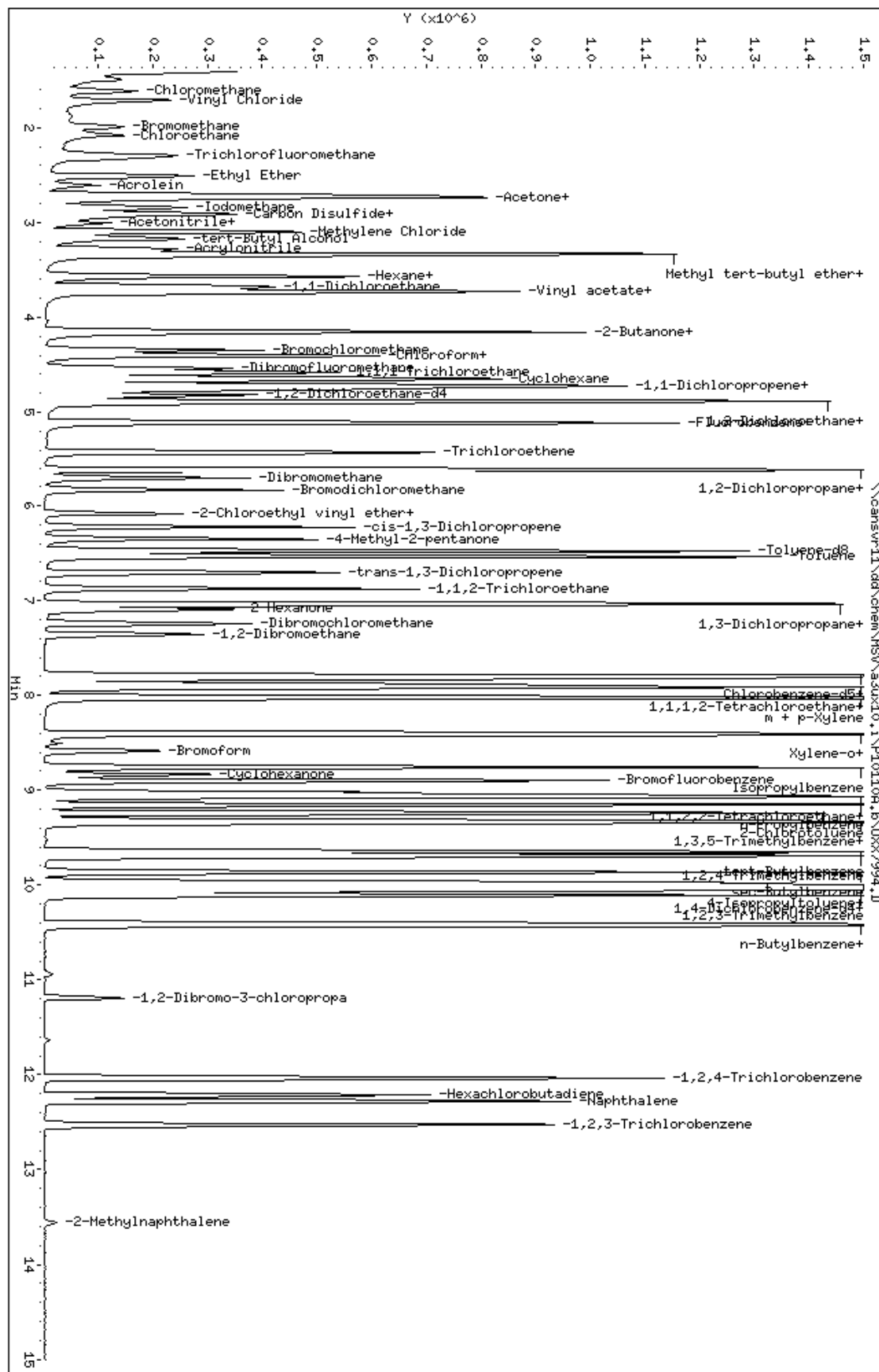
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1162967	-15.12
2 Chlorobenzene-d5	1084996	542498	2169992	1040159	-4.13
3 1,4-Dichlorobenze	659942	329971	1319884	657706	-0.34

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\P10110A.b\UX7994.D
 Date: 10-JAN-2011 10:34
 Client ID:
 Sample Info: LCS
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1A060436
MB Lot-Sample #: A1A100000-112

Work Order #...: MC6XD1AA

Matrix.....: WATER

Analysis Date...: 01/10/11

Prep Date.....: 01/10/11

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 1010112

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1A060436

Work Order #...: MC6XD1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
n-Propylbenzene	ND	1.0	ug/L	SW846	8260B
Styrene	ND	1.0	ug/L	SW846	8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
Tetrachloroethene	ND	1.0	ug/L	SW846	8260B
Toluene	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846	8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846	8260B
Trichloroethene	ND	1.0	ug/L	SW846	8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846	8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
Vinyl chloride	ND	1.0	ug/L	SW846	8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846	8260B
o-Xylene	ND	1.0	ug/L	SW846	8260B
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
Dibromofluoromethane	96		(75 - 121)		
1,2-Dichloroethane-d4	96		(63 - 129)		
Toluene-d8	92		(74 - 115)		
4-Bromofluorobenzene	88		(66 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7995.D
 Report Date: 10-Jan-2011 11:30

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7995.D
 Lab Smp Id: VBLK
 Inj Date : 10-JAN-2011 10:56
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info : VBLK,5ML/5ML
 Misc Info : P10110A,8260LLUX10,,1904,3,,BLANK,,0
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 a3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 4 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL		
	MASS					(ng)	(ug/L)		
=====	=====	=====	=====	=====	=====	=====	=====		
* 1 Fluorobenzene	96	5.113	5.113	(1.000)	1257690	50.0000			
* 2 Chlorobenzene-d5	117	7.787	7.787	(1.000)	920947	50.0000			
* 3 1,4-Dichlorobenzene-d4	152	10.035	10.036	(1.000)	551091	50.0000			
\$ 4 Dibromofluoromethane	113	4.533	4.533	(0.887)	237314	47.8269	9.565		
\$ 5 1,2-Dichloroethane-d4	65	4.829	4.817	(0.944)	279184	48.0689	9.614		
\$ 6 Toluene-d8	98	6.473	6.474	(0.831)	926297	45.9770	9.195		
\$ 7 Bromofluorobenzene	95	8.899	8.900	(1.143)	312533	44.1860	8.837		
8 Dichlorodifluoromethane	85	Compound Not Detected.							
9 Chloromethane	50	Compound Not Detected.							
10 Vinyl Chloride	62	Compound Not Detected.							
11 Bromomethane	94	Compound Not Detected.							
12 Chloroethane	64	Compound Not Detected.							
13 Trichlorofluoromethane	101	Compound Not Detected.							
15 Acrolein	56	Compound Not Detected.							
16 Acetone	43	Compound Not Detected.							
17 1,1-Dichloroethene	96	Compound Not Detected.							
18 Freon-113	151	Compound Not Detected.							
19 Iodomethane	142	Compound Not Detected.							
20 Carbon Disulfide	76	Compound Not Detected.							
21 Methylene Chloride	84	3.101	3.102	(0.607)	18553	2.88572	0.5771		

22 Acetonitrile	41	Compound Not Detected.
23 Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7995.D
 Report Date: 10-Jan-2011 11:30

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
24 Methyl tert-butyl ether	73		Compound	Not	Detected.			
25 trans-1,2-Dichloroethene	96		Compound	Not	Detected.			
26 Hexane	86		Compound	Not	Detected.			
27 Vinyl acetate	43		Compound	Not	Detected.			
28 1,1-Dichloroethane	63		Compound	Not	Detected.			
29 tert-Butyl Alcohol	59		Compound	Not	Detected.			
30 2-Butanone	43		Compound	Not	Detected.			
M 31 1,2-Dichloroethene (total)	96		Compound	Not	Detected.			
32 cis-1,2-dichloroethene	96		Compound	Not	Detected.			
33 2,2-Dichloropropane	77		Compound	Not	Detected.			
34 Bromochloromethane	128		Compound	Not	Detected.			
35 Chloroform	83		Compound	Not	Detected.			
36 Tetrahydrofuran	42		Compound	Not	Detected.			
37 1,1,1-Trichloroethane	97		Compound	Not	Detected.			
38 1,1-Dichloropropene	75		Compound	Not	Detected.			
39 Carbon Tetrachloride	117		Compound	Not	Detected.			
40 1,2-Dichloroethane	62		Compound	Not	Detected.			
41 Benzene	78		Compound	Not	Detected.			
42 Trichloroethene	130		Compound	Not	Detected.			
43 1,2-Dichloropropane	63		Compound	Not	Detected.			
44 1,4-Dioxane	88		Compound	Not	Detected.			
45 Dibromomethane	93		Compound	Not	Detected.			
46 Bromodichloromethane	83		Compound	Not	Detected.			
47 2-Chloroethyl vinyl ether	63		Compound	Not	Detected.			
48 cis-1,3-Dichloropropene	75		Compound	Not	Detected.			
49 4-Methyl-2-pentanone	43		Compound	Not	Detected.			
50 Toluene	91		Compound	Not	Detected.			
51 trans-1,3-Dichloropropene	75		Compound	Not	Detected.			
52 Ethyl Methacrylate	69		Compound	Not	Detected.			
53 1,1,2-Trichloroethane	97		Compound	Not	Detected.			
54 1,3-Dichloropropane	76		Compound	Not	Detected.			
55 Tetrachloroethene	164		Compound	Not	Detected.			
56 2-Hexanone	43		Compound	Not	Detected.			
57 Dibromochloromethane	129		Compound	Not	Detected.			
58 1,2-Dibromoethane	107		Compound	Not	Detected.			
59 Chlorobenzene	112		Compound	Not	Detected.			
60 1,1,1,2-Tetrachloroethane	131		Compound	Not	Detected.			
61 Ethylbenzene	106		Compound	Not	Detected.			
62 m + p-Xylene	106		Compound	Not	Detected.			
M 63 Xylenes (total)	106		Compound	Not	Detected.			
64 Xylene-o	106		Compound	Not	Detected.			
65 Styrene	104		Compound	Not	Detected.			
66 Bromoform	173		Compound	Not	Detected.			
67 Isopropylbenzene	105		Compound	Not	Detected.			
68 1,1,2,2-Tetrachloroethane	83		Compound	Not	Detected.			
69 1,4-Dichloro-2-butene	53		Compound	Not	Detected.			
70 1,2,3-Trichloropropane	110		Compound	Not	Detected.			
71 Bromobenzene	156		Compound	Not	Detected.			
72 n-Propylbenzene	120		Compound	Not	Detected.			
73 2-Chlorotoluene	126		Compound	Not	Detected.			
74 1,3,5-Trimethylbenzene	105		Compound	Not	Detected.			
75 4-Chlorotoluene	126		Compound	Not	Detected.			

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\A3UX10.I\PI0110A.B\UXX7995.D
 Report Date: 10-Jan-2011 11:30

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS					(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
78 sec-Butylbenzene	105	Compound	Not	Detected.				
79 4-Isopropyltoluene	119	Compound	Not	Detected.				
80 1,3-Dichlorobenzene	146	Compound	Not	Detected.				
81 1,4-Dichlorobenzene	146	Compound	Not	Detected.				
82 n-Butylbenzene	91	Compound	Not	Detected.				
83 1,2-Dichlorobenzene	146	Compound	Not	Detected.				
84 1,2-Dibromo-3-chloropropane	157	Compound	Not	Detected.				
85 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.				
86 Hexachlorobutadiene	225	Compound	Not	Detected.				
87 Naphthalene	128	12.283	12.284	(1.224)	10471	3.13686	0.6274	
88 1,2,3-Trichlorobenzene	180	Compound	Not	Detected.				
14 Dichlorofluoromethane	67	Compound	Not	Detected.				
89 Ethyl Ether	59	Compound	Not	Detected.				
91 3-Chloropropene	76	Compound	Not	Detected.				
92 Isopropyl Ether	87	Compound	Not	Detected.				
93 2-Chloro-1,3-butadiene	53	Compound	Not	Detected.				
94 Propionitrile	54	Compound	Not	Detected.				
95 Ethyl Acetate	43	Compound	Not	Detected.				
96 Methacrylonitrile	41	Compound	Not	Detected.				
97 Isobutanol	41	Compound	Not	Detected.				
99 n-Butanol	56	Compound	Not	Detected.				
100 Methyl Methacrylate	41	Compound	Not	Detected.				
101 2-Nitropropane	41	Compound	Not	Detected.				
103 Cyclohexanone	55	Compound	Not	Detected.				
98 Cyclohexane	56	Compound	Not	Detected.				
143 Methyl Acetate	43	Compound	Not	Detected.				
144 Methylcyclohexane	83	Compound	Not	Detected.				
141 1,3,5-Trichlorobenzene	180	Compound	Not	Detected.				
146 2-Methylnaphthalene	142	Compound	Not	Detected.				
149 Vinyl Acetate-86	86	Compound	Not	Detected.				
153 t-Butyl ethyl ether	59	Compound	Not	Detected.				
154 t-Amyl methyl ether	73	Compound	Not	Detected.				
155 1,2,3-Trimethylbenzene	105	Compound	Not	Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7995.D
 Report Date: 10-Jan-2011 11:30

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX7995.D Calibration Time: 09:51
 Lab Smp Id: VBLK Level: LOW
 Analysis Type: VOA Sample Type: WATER
 Quant Type: ISTD Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,,1904,3,,BLANK,,0

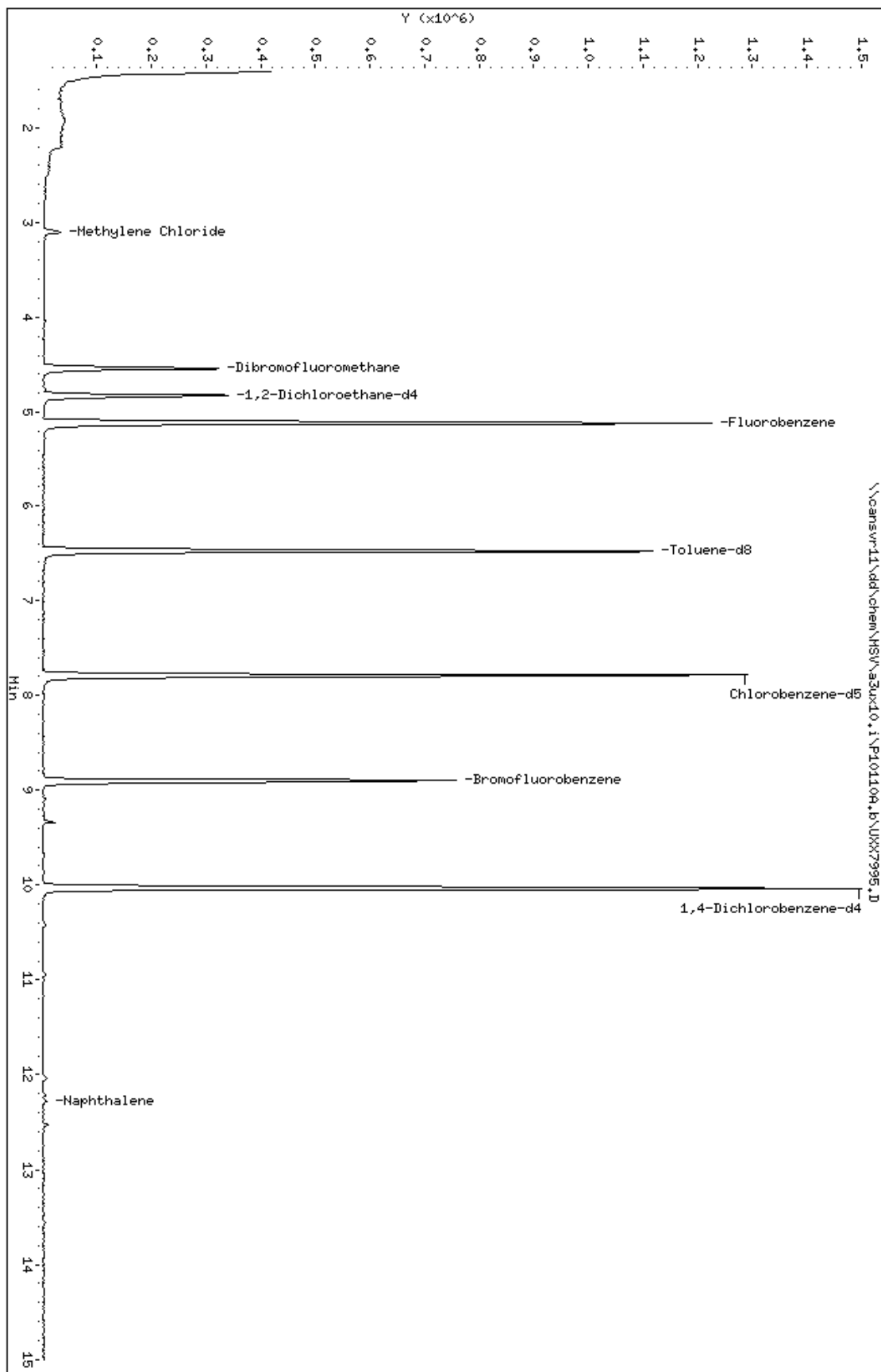
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1257690	-8.20
2 Chlorobenzene-d5	1084996	542498	2169992	920947	-15.12
3 1,4-Dichlorobenze	659942	329971	1319884	551091	-16.49

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.01
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101109.b\UX7995.D
Date : 10-JAN-2011 10:56
Client ID:
Sample Info: VBLK,SHL/SHL
Purge Volume: 5.0
Column phase: DB624

Instrument: 33x10.i
Operator: 1904
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7995.D

Date : 10-JAN-2011 10:56

Client ID:

Instrument: a3ux10.i

Sample Info: VBLK,5ML/5ML

Purge Volume: 5.0

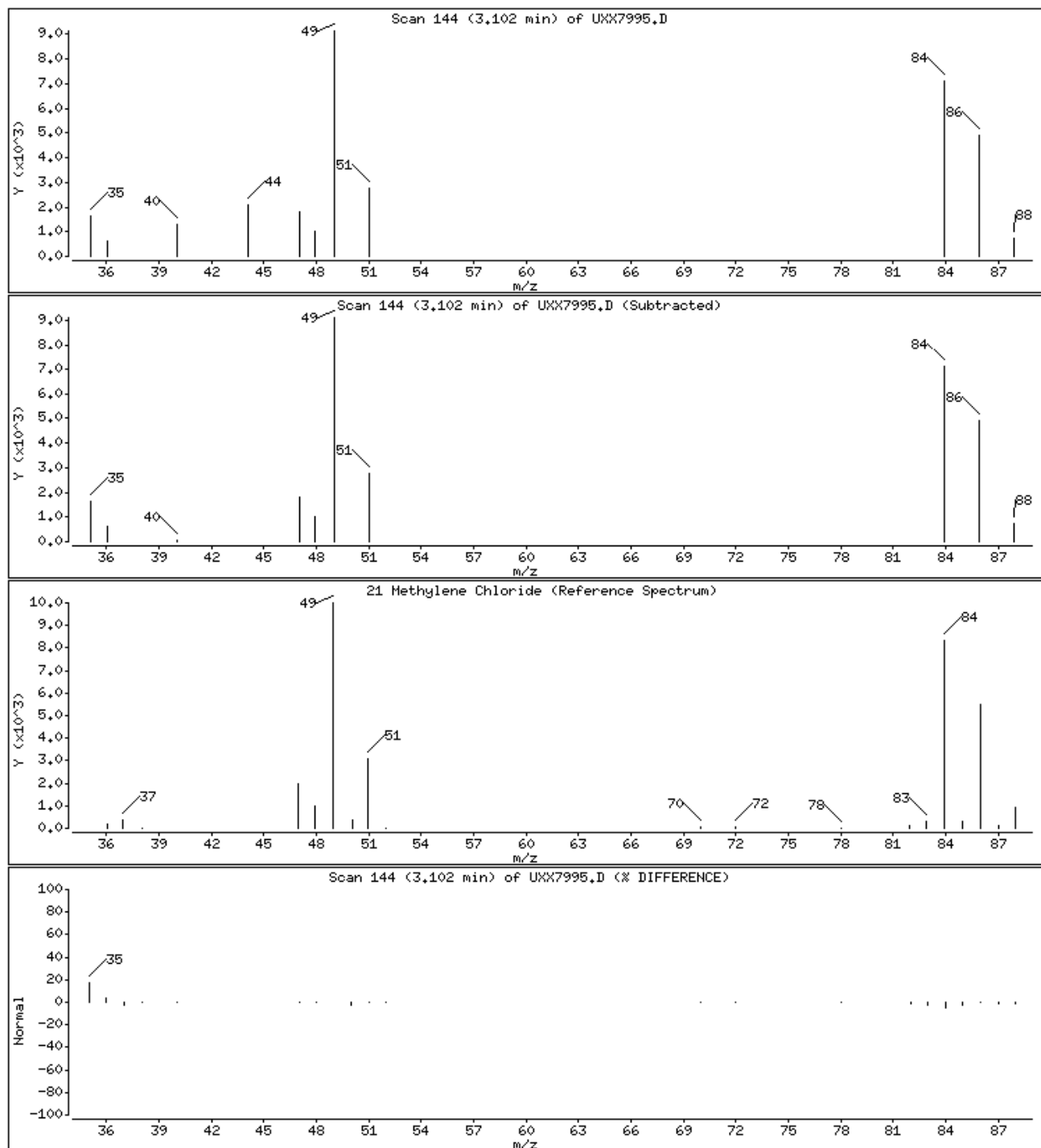
Operator: 1904

Column phase: DB624

Column diameter: 0.18

21 Methylene Chloride

Concentration: 0.5771 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7995.D

Date : 10-JAN-2011 10:56

Client ID:

Instrument: a3ux10.i

Sample Info: VBLK,5ML/5ML

Purge Volume: 5.0

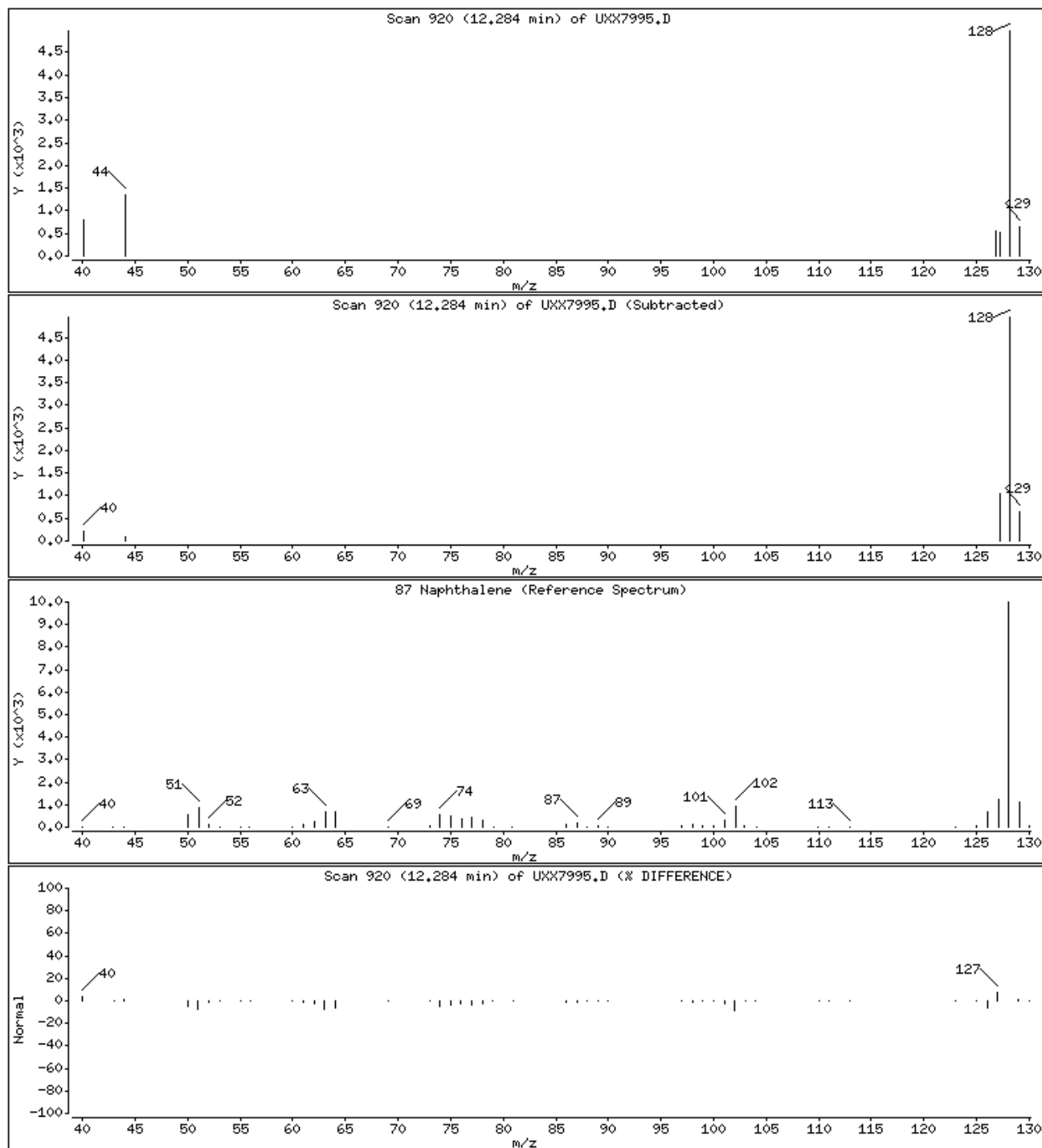
Operator: 1904

Column phase: DB624

Column diameter: 0.18

87 Naphthalene

Concentration: 0.6274 ug/L



MISCELLANEOUS DATA

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

12/28

Standard Codes:		Column					
IS#:	V9459	Type: DB624	Method: 8260	624			
SS#:	V9473	Length: 20 M	Batch: 0364104				
BFB#:	V9140	I.D.: 0.18 mm	Target Batch: P01229A-IC.b				
=====							
InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
=====							
09:10	BFB3989.D		BFB				ok
09:33	UXX7801.D	200NG-IC	CALIB_6				ok
09:55	UXX7802.D	100NG-IC	CALIB_5				ok
10:17	UXX7803.D	50NG-IC	CALIB_4		P01229		ok
10:38	UXX7804.D	25NG-IC	CALIB_3				ok
10:59	UXX7805.D	10NG-IC	CALIB_2				ok
11:20	UXX7806.D	5NG-IC	CALIB_1				ok
11:42	UXX7807.D	ICV	METHSPIKE				ok
12:20	UXX7808.D	50NG-A9CC	CCALIB_4		P01114		ok
12:41	UXX7809.D	LCS	METHSPIKE		MCW05		ok
13:02	UXX7810.D	VBLK, 5ML/5ML	BLANK		J		ok
13:24	UXX7811.D	MCP1P1AA, 0.004ML/5ML	SAMPLE	N		A0L220569	ok
13:46	UXX7812.D	MCP1D1AA, 0.005ML/5ML	SAMPLE	N		A0L220569	ok
14:07	UXX7813.D	MCP1E1AA, 0.01ML/5ML	SAMPLE	N		A0L220569	ok
14:29	UXX7814.D	MCP1G1AA, 0.015ML/5ML	SAMPLE	N		A0L220569	ok
14:51	UXX7815.D	MCP1H1AA, 0.08ML/5ML	SAMPLE	N	R-200ul	A0L220569	-
15:12	UXX7816.D	MCP1P1AC, 0.004ML/5ML	MS	N		A0L220569	ok
15:33	UXX7817.D	MCP1P1AD, 0.004ML/5ML	MSD	N		A0L220569	ok
15:55	UXX7818.D	MCP091AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
16:16	UXX7819.D	MCP1C1AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
16:38	UXX7820.D	MCP1L1AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
16:59	UXX7821.D	MCP1N1AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
17:20	UXX7822.D	MCP1Q1AA, 5ML/5ML	SAMPLE	N	R-1.5ml	A0L220569	-
17:42	UXX7823.D	MCP1T1AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
18:03	UXX7824.D	MCP1H1AA, 0.2ML/5ML	SAMPLE	N		A0L220569	ok
18:25	UXX7825.D	MCP1X1AA, 0.55ML/5ML	SAMPLE	N		A0L220569	ok

Analyst: 1904

Level 2 Review: K Date: 1-3

Page No. #1

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#: _____	Type: DB624	Method: 8260 624
SS#: _____	Length: 20 M	Batch: _____
BFB#: _____	I.D.: 0.18 mm	Target Batch: P01229A-IC.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
18:46	UXX7826.D	MCP101AA, 2ML/5ML	SAMPLE	N		A0L220569	ok
19:07	UXX7827.D	MCP111AA, 0.125ML/5ML	SAMPLE	N		A0L220569	ok
19:29	UXX7828.D	MCP121AA, 0.075ML/5ML	SAMPLE	N		A0L220569	ok
19:50	UXX7829.D	MCP181AA, 0.4ML/5ML	SAMPLE	N		A0L220569	ok
20:12	UXX7830.D	MCP2E1AA, 1ML/5ML	SAMPLE	N		A0L220569	ok
20:34	UXX7831.D	MCP3D1AA, 0.75ML/5ML	SAMPLE	N		A0L220569	ok
20:55	UXX7832.D	MA7H72AA, 0.01ML/5ML	SAMPLE	N		A0L100568	ok
21:16	UXX7833.D	BLANK	SAMPLE			SDGa00932	-

Analyst: 1904

Level 2 Review: _____

Date: _____

Page No. #2

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:		Column			
IS#:	V9357	Type:	DB624	Method:	8260 624
SS#:	V9358	Length:	20 M	Batch:	
BFB#:	V9140	I.D.:	0.18 mm	Target Batch:	P01114A-IC.b
=====					
InjTm	Data File	Sample Info	MS/MSD	TIC	Comments
=====					
16:17	BFB3928.D		BFB		
					ok
16:46	UXX6193.D	200NG-IC	CALIB_6		
		V9335, 42, 46, 55			ok
17:08	UXX6194.D	100NG-IC	CALIB_5		
					ok
17:30	UXX6195.D	50NG-IC	CALIB_4		P01114
					ok
17:52	UXX6196.D	25NG-IC	CALIB_3		
					ok
18:13	UXX6197.D	10NG-IC	CALIB_2		
					ok
18:34	UXX6198.D	5NG-IC	CALIB_1		
					ok
18:56	UXX6199.D	ICV	METHSPIKE		
		V9337			ok
19:17	UXX6200.D	200NG-A9IC	CALIB_6		
		V9338, 39			ok
19:38	UXX6201.D	100NG-A9IC	CALIB_5		
					ok
19:59	UXX6202.D	50NG-A9IC	CALIB_4		P01114-A7
					ok
20:21	UXX6203.D	25NG-A9IC	CALIB_3		
					ok
20:42	UXX6204.D	10NG-A9IC	CALIB_2		
					ok
21:03	UXX6205.D	5NG-A9IC	CALIB_1		
					ok

Analyst: 1904

Level 2 Review: TS

Date: 11/17/10

Page No. #1

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

1/11

Standard Codes:			Column				
IS#:	U9459		Type:	DB624	Method:	8260	624
SS#:	U9473		Length:	20 M	Batch:	1010112	
BFB#:	U9140		I.D.:	0.18 mm	Target Batch:	P10110A.b	
InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
09:25	BFB3997.D		BFB				ok
09:51	UXX7992.D	50NG-CC U9496, 98, 99	CCALIB_4		P01229		ok
10:13	UXX7993.D	50NG-A9CC U9492, 9500	CCALIB_4		P01114		ok
10:34	UXX7994.D	LCS U9497	METHSPIKE	N	MC 6x0		ok
10:56	UXX7995.D	VBLK, 5ML/5ML	BLANK	Y	I		ok
11:17	UXX7996.D	MC3QN1AA, 0.5ML/5ML	SAMPLE	N	R - 5ML	A1A060436	-
11:38	UXX7997.D	MC3QT1AA, 5ML/5ML	SAMPLE	N		A1A060436	ok
12:00	UXX7998.D	MC5JF1AA, 5ML/5ML	SAMPLE	N		A1A070479	ok
12:21	UXX7999.D	MC5JN1AA, 5ML/5ML	SAMPLE	N		A1A070479	ok
12:43	UXX8000.D	MC3QN1AA, 5ML/5ML	SAMPLE	N		A1A060436	ok
13:04	UXX8001.D	MC48E1AA, 0.875ML/5ML	SAMPLE	N		A1A070446	ok
13:25	UXX8002.D	MC48E2AA, 5ML/5ML	SAMPLE	N		A1A070446	ok
13:47	UXX8003.D	MC5JF-MS, 5ML/5ML - IAC	MS	N		SDGa00932	ok
14:09	UXX8004.D	MC5JF-MSD, 5ML/5ML - IAD	MSD	N		SDGa00932	ok
14:30	UXX8005.D	MC48N1AA, 5ML/5ML	SAMPLE	N		A1A070446	ok
14:52	UXX8006.D	MC1EQ1AA, 0.002ML/5ML	SAMPLE	N	R - 3.5ml	A1A040442	-
15:13	UXX8007.D	MC3WG1AA, 1ML/5ML	SAMPLE	N		A1A060460	ok
15:35	UXX8008.D	MC3WC1AA, 5ML/5ML	SAMPLE	N		A1A060460	ok
15:56	UXX8009.D	MC3R51AA, 1ML/5ML	SAMPLE	N		A1A060444	ok
16:18	UXX8010.D	MC1EQ1AA, 0.0035ML/5ML	SAMPLE	N		A1A040442	ok
16:39	UXX8011.D	MC3RW1AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
17:01	UXX8012.D	MC3R71AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
17:22	UXX8013.D	MC3R81AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
17:44	UXX8014.D	MC3TC1AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
18:05	UXX8015.D	MC3TD1AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
18:27	UXX8016.D	MC3TG1AA, 5ML/5ML	SAMPLE	N		A1A060444	ok

Analyst: 1904

Level 2 Review: TS

Date: 1/11/11

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TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#: _____	Type: DB624	Method: 8260 624
SS#: _____	Length: 20 M	Batch: _____
BFB#: _____	I.D.: 0.18 mm	Target Batch: P10110A.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
18:48	UXX8017.D	MC0FF1AA, 5ML/5ML	SAMPLE	N		A1A030412	ok
19:10	UXX8018.D	MC0FH1AA, 5ML/5ML	SAMPLE	N		A1A030412	ok
19:31	UXX8019.D	MC0FJ1AA, 5ML/5ML	SAMPLE	N		A1A030412	ok

Analyst: 1904

Level 2 Review: _____ Date: _____

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TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:		Column			
IS#:		Type: DB624		Method: 8260 624	
SS#:		Length: 20 M		Batch:	
BFB#:		I.D.: 0.18 mm		Target Batch: P10110A.b	
=====					
InjTm	Data File	Sample Info	MS/MSD	TIC	Comments
=====					
09:25	BFB3997.D		BFB		
09:51	UXX7992.D	50NG-CC	CCALIB_4		
10:13	UXX7993.D	50NG-A9CC	CCALIB_4		
10:34	UXX7994.D	LCS	METHSPIKE	N	
10:56	UXX7995.D	VBLK, 5ML/5ML	BLANK	Y	
11:17	UXX7996.D	MC3QN1AA, 0.5ML/5ML	SAMPLE	N	R - 5ml
11:38	UXX7997.D	MC3QT1AA, 5ML/5ML	SAMPLE	N	
12:00	UXX7998.D	MC5JF1AA, 5ML/5ML	SAMPLE	N	
12:21	UXX7999.D	MC5JN1AA, 5ML/5ML	SAMPLE	N	
12:43	UXX8000.D	MC3QN1AA, 5ML/5ML	SAMPLE	N	
13:04	UXX8001.D	MC48E1AA, 0.875ML/5ML	SAMPLE	N	
13:25	UXX8002.D	MC48E2AA, 5ML/5ML	SAMPLE	N	
13:47	UXX8003.D	MC5JF-MS, 5ML/5ML	MS	N	
14:09	UXX8004.D	MC5JF-MSD, 5ML/5ML	MSD	N	
14:30	UXX8005.D	MC48N1AA, 5ML/5ML	SAMPLE	N	
14:52	UXX8006.D	MC1EQ1AA, 0.002ML/5ML	SAMPLE	N	R -
15:13	UXX8007.D	MC3WG1AA, 1ML/5ML	SAMPLE	N	

Analyst: 1904

Level 2 Review: TSDate: 1/10/11

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Lot: A1A060436

A1A060436

<u>Sample</u>	<u>Work Order</u>	<u>SAC</u>	<u>Client Sample ID</u>	<u>pH</u>	<u>Free Chlorine</u>
1	MC3QN-1AA	XX I 25 QK 01	MW-108BH@195(20110105)	<2	ND
2	MC3QT-1AA	XX I 25 QK 01	TB-20110105	<2	ND

Lot/SDG
Number: **A1A060436**

Sample Control Chain of Custody – TAL North Canton
GC/MS Volatiles

<u>Lot Number</u>	<u>Sample</u>	<u>Work Order</u>	<u>Analysis Type</u>	<u>Analysis Date</u>	<u>Analyst</u>
A1A060436	1	MC3QN1AA	Volatile Organics, GC/MS (8260B)	01/10/11	Richard Quayle
A1A060436	2	MC3QT1AA	Volatile Organics, GC/MS (8260B)	01/10/11	Richard Quayle

END OF REPORT

ANALYTICAL REPORT

PROJECT NO. KC001590.0003.00002

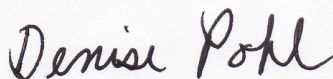
TRW OGVOU2

Lot #: A1A060436

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
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Approved for release.
Denise Pohl
Project Manager
1/18/2011 2:23 PM

January 18, 2011

TestAmerica Laboratories, Inc.

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Sample Summary	11
Shipping and Receiving Documents	13
GC/MS Volatile Data	17
Total # of Pages in this Document	40

CASE NARRATIVE

CASE NARRATIVE

A1A060436

The following report contains the analytical results for one water sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGVOU2 Site, project number KC001590.0003.00002. The samples were received January 06, 2011, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Alex Walter, Paul Jack, ESPM, John Shonfelt, and Kirsten.Wright on January 10, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.0°C.

GC/MS VOLATILES

The matrix spike/matrix spike duplicate(s) for batch(es) 1010112 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A1A060436

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-108BH@195(20110105) 01/05/11 08:30 001				
Dichlorofluoromethane	26	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	4.7	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A1A060436

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A1A060436

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MC3QN	001	MW-108BH@195(20110105)	01/05/11	08:30
MC3QT	002	TB-20110105	01/05/11	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A1A060436

Client Aradics Project TRW/OGV By: [Signature]
 Cooler Received on 1/6/11 Opened on 1/6/11 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐
 TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
 If YES, Quantity 1 Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
 Were custody seals on the bottle(s)? Yes ☐ No ☒
 If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
 3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
 4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
 5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐ Other _____
 6. Cooler temperature upon receipt 1.0 °C See back of form for multiple coolers/temps ☐
 METHOD: IR ☒ Other ☐
 COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
 7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
 8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
 9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
 10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
 11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
 12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
 13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐
- Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
 Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample
 Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium
 Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-
 (CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

North Canton Facility

Client ID

pH

Date

Initials

Cooler #

Temp. °C

Method

Coolant

[illegible]

GCMS VOLATILE DATA

TRW Automotive

Client Sample ID: MW-108BH@195(20110105)

GC/MS Volatiles

Lot-Sample #...: A1A060436-001 Work Order #...: MC3QN1AA Matrix.....: WG
 Date Sampled...: 01/05/11 08:30 Date Received...: 01/06/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	26	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108BH@195(20110105)

GC/MS Volatiles

Lot-Sample #...: A1A060436-001 Work Order #...: MC3QN1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	4.7	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	100	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

TRW Automotive

Client Sample ID: TB-20110105

GC/MS Volatiles

Lot-Sample #...: A1A060436-002 Work Order #...: MC3QT1AA Matrix.....: WQ
 Date Sampled...: 01/05/11 Date Received...: 01/06/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20110105

GC/MS Volatiles

Lot-Sample #...: A1A060436-002 Work Order #...: MC3QT1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(75 - 121)
1,2-Dichloroethane-d4	98	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1A060436
MB Lot-Sample #: A1A100000-112

Work Order #...: MC6XD1AA

Matrix.....: WATER

Analysis Date...: 01/10/11

Prep Date.....: 01/10/11

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 1010112

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1A060436

Work Order #...: MC6XD1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
n-Propylbenzene	ND	1.0	ug/L	SW846	8260B
Styrene	ND	1.0	ug/L	SW846	8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
Tetrachloroethene	ND	1.0	ug/L	SW846	8260B
Toluene	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846	8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846	8260B
Trichloroethene	ND	1.0	ug/L	SW846	8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846	8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
Vinyl chloride	ND	1.0	ug/L	SW846	8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846	8260B
o-Xylene	ND	1.0	ug/L	SW846	8260B
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
Dibromofluoromethane	96		(75 - 121)		
1,2-Dichloroethane-d4	96		(63 - 129)		
Toluene-d8	92		(74 - 115)		
4-Bromofluorobenzene	88		(66 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	99	(83 - 112)	SW846 8260B
Acetone	103	(43 - 136)	SW846 8260B
Bromobenzene	84	(76 - 115)	SW846 8260B
Carbon disulfide	108	(62 - 142)	SW846 8260B
1,2-Dichloroethene (total)	97	(82 - 114)	SW846 8260B
Bromochloromethane	103	(77 - 120)	SW846 8260B
2-Butanone	108	(60 - 126)	SW846 8260B
Bromodichloromethane	109	(72 - 121)	SW846 8260B
Bromoform	88	(40 - 131)	SW846 8260B
Bromomethane	104	(11 - 185)	SW846 8260B
n-Butylbenzene	100	(66 - 125)	SW846 8260B
4-Methyl-2-pentanone	107	(63 - 128)	SW846 8260B
2-Hexanone	97	(55 - 133)	SW846 8260B
sec-Butylbenzene	95	(70 - 117)	SW846 8260B
tert-Butylbenzene	103	(71 - 115)	SW846 8260B
Xylenes (total)	97	(83 - 112)	SW846 8260B
Carbon tetrachloride	131 a	(66 - 128)	SW846 8260B
Chlorobenzene	92	(85 - 110)	SW846 8260B
Dibromochloromethane	99	(64 - 119)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	155 a	(74 - 151)	SW846 8260B
Methyl acetate	99	(58 - 131)	SW846 8260B
Chloroethane	112	(25 - 153)	SW846 8260B
Methyl tert-butyl ether (MTBE)	99	(52 - 144)	SW846 8260B
Cyclohexane	116	(54 - 121)	SW846 8260B
Methylcyclohexane	126	(56 - 127)	SW846 8260B
Chloroform	107	(79 - 117)	SW846 8260B
Chloromethane	80	(44 - 126)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(42 - 136)	SW846 8260B
2-Chlorotoluene	86	(76 - 116)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl tert-butyl ether	99	(52 - 144)	SW846 8260B
n-Hexane	133	(66 - 137)	SW846 8260B
4-Chlorotoluene	88	(77 - 115)	SW846 8260B
2-Chloroethyl vinyl ether	84	(52 - 131)	SW846 8260B
Acetonitrile	166	(15 - 184)	SW846 8260B
1,2-Dibromoethane	98	(79 - 113)	SW846 8260B
Acrolein	103	(51 - 170)	SW846 8260B
Vinyl acetate	94	(46 - 161)	SW846 8260B
Acrylonitrile	98	(66 - 132)	SW846 8260B
Dibromomethane	113	(81 - 120)	SW846 8260B
1,2-Dichlorobenzene	90	(81 - 110)	SW846 8260B
1,3-Dichlorobenzene	87	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	87	(82 - 110)	SW846 8260B
Iodomethane	119	(72 - 141)	SW846 8260B
Isopropyl ether	91	(77 - 118)	SW846 8260B
Dichlorodifluoromethane	82	(19 - 129)	SW846 8260B
1,1-Dichloroethane	99	(82 - 115)	SW846 8260B
1,2-Dichloroethane	119	(71 - 127)	SW846 8260B
cis-1,2-Dichloroethene	96	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	98	(83 - 117)	SW846 8260B
1,1-Dichloroethene	103	(78 - 131)	SW846 8260B
1,2-Dichloropropane	99	(81 - 115)	SW846 8260B
1,3-Dichloropropane	95	(79 - 116)	SW846 8260B
2,2-Dichloropropane	103	(50 - 129)	SW846 8260B
cis-1,3-Dichloropropene	101	(61 - 115)	SW846 8260B
trans-1,3-Dichloropropene	95	(58 - 117)	SW846 8260B
1,1-Dichloropropene	108	(83 - 114)	SW846 8260B
Ethylbenzene	96	(83 - 112)	SW846 8260B
Hexachlorobutadiene	105	(36 - 134)	SW846 8260B
Isopropylbenzene	100	(75 - 114)	SW846 8260B
p-Isopropyltoluene	99	(74 - 120)	SW846 8260B
Methylene chloride	97	(66 - 131)	SW846 8260B
Naphthalene	88	(32 - 141)	SW846 8260B
n-Propylbenzene	92	(74 - 121)	SW846 8260B
Styrene	101	(79 - 114)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(72 - 116)	SW846 8260B
1,1,2,2-Tetrachloroethane	84	(68 - 118)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tetrachloroethene	103	(79 - 114)	SW846 8260B
Toluene	85	(84 - 111)	SW846 8260B
1,2,3-Trichlorobenzene	102	(54 - 126)	SW846 8260B
1,2,4-Trichloro- benzene	101	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	113	(74 - 118)	SW846 8260B
1,1,2-Trichloroethane	94	(80 - 112)	SW846 8260B
Trichloroethene	105	(76 - 117)	SW846 8260B
Trichlorofluoromethane	138	(49 - 157)	SW846 8260B
1,2,3-Trichloropropane	87	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	93	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	90	(72 - 118)	SW846 8260B
Vinyl chloride	109	(53 - 127)	SW846 8260B
m-Xylene & p-Xylene	97	(83 - 113)	SW846 8260B
o-Xylene	98	(83 - 113)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10	9.9	ug/L	99	SW846 8260B
Acetone	20	21	ug/L	103	SW846 8260B
Bromobenzene	10	8.4	ug/L	84	SW846 8260B
Carbon disulfide	10	11	ug/L	108	SW846 8260B
1,2-Dichloroethene (total)	20	19	ug/L	97	SW846 8260B
Bromochloromethane	10	10	ug/L	103	SW846 8260B
2-Butanone	20	22	ug/L	108	SW846 8260B
Bromodichloromethane	10	11	ug/L	109	SW846 8260B
Bromoform	10	8.8	ug/L	88	SW846 8260B
Bromomethane	10	10	ug/L	104	SW846 8260B
n-Butylbenzene	10	10	ug/L	100	SW846 8260B
4-Methyl-2-pentanone	20	21	ug/L	107	SW846 8260B
2-Hexanone	20	19	ug/L	97	SW846 8260B
sec-Butylbenzene	10	9.5	ug/L	95	SW846 8260B
tert-Butylbenzene	10	10	ug/L	103	SW846 8260B
Xylenes (total)	30	29	ug/L	97	SW846 8260B
Carbon tetrachloride	10	13 a	ug/L	131	SW846 8260B
Chlorobenzene	10	9.2	ug/L	92	SW846 8260B
Dibromochloromethane	10	9.9	ug/L	99	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	16 a	ug/L	155	SW846 8260B
Methyl acetate	10	9.9	ug/L	99	SW846 8260B
Chloroethane	10	11	ug/L	112	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.9	ug/L	99	SW846 8260B
Cyclohexane	10	12	ug/L	116	SW846 8260B
Methylcyclohexane	10	13	ug/L	126	SW846 8260B
Chloroform	10	11	ug/L	107	SW846 8260B
Chloromethane	10	8.0	ug/L	80	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.5	ug/L	95	SW846 8260B
2-Chlorotoluene	10	8.6	ug/L	86	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methyl tert-butyl ether	10	9.9	ug/L	99	SW846 8260B
n-Hexane	10	13	ug/L	133	SW846 8260B
4-Chlorotoluene	10	8.8	ug/L	88	SW846 8260B
2-Chloroethyl vinyl ether	10	8.4	ug/L	84	SW846 8260B
Acetonitrile	30	50	ug/L	166	SW846 8260B
1,2-Dibromoethane	10	9.8	ug/L	98	SW846 8260B
Acrolein	30	31	ug/L	103	SW846 8260B
Vinyl acetate	10	9.4	ug/L	94	SW846 8260B
Acrylonitrile	30	29	ug/L	98	SW846 8260B
Dibromomethane	10	11	ug/L	113	SW846 8260B
1,2-Dichlorobenzene	10	9.0	ug/L	90	SW846 8260B
1,3-Dichlorobenzene	10	8.7	ug/L	87	SW846 8260B
1,4-Dichlorobenzene	10	8.7	ug/L	87	SW846 8260B
Iodomethane	10	12	ug/L	119	SW846 8260B
Isopropyl ether	10	9.1	ug/L	91	SW846 8260B
Dichlorodifluoromethane	10	8.2	ug/L	82	SW846 8260B
1,1-Dichloroethane	10	9.9	ug/L	99	SW846 8260B
1,2-Dichloroethane	10	12	ug/L	119	SW846 8260B
cis-1,2-Dichloroethene	10	9.6	ug/L	96	SW846 8260B
trans-1,2-Dichloroethene	10	9.8	ug/L	98	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	103	SW846 8260B
1,2-Dichloropropane	10	9.9	ug/L	99	SW846 8260B
1,3-Dichloropropane	10	9.5	ug/L	95	SW846 8260B
2,2-Dichloropropane	10	10	ug/L	103	SW846 8260B
cis-1,3-Dichloropropene	10	10	ug/L	101	SW846 8260B
trans-1,3-Dichloropropene	10	9.5	ug/L	95	SW846 8260B
1,1-Dichloropropene	10	11	ug/L	108	SW846 8260B
Ethylbenzene	10	9.6	ug/L	96	SW846 8260B
Hexachlorobutadiene	10	11	ug/L	105	SW846 8260B
Isopropylbenzene	10	10	ug/L	100	SW846 8260B
p-Isopropyltoluene	10	9.9	ug/L	99	SW846 8260B
Methylene chloride	10	9.7	ug/L	97	SW846 8260B
Naphthalene	10	8.8	ug/L	88	SW846 8260B
n-Propylbenzene	10	9.2	ug/L	92	SW846 8260B
Styrene	10	10	ug/L	101	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.6	ug/L	96	SW846 8260B
1,1,2,2-Tetrachloroethane	10	8.4	ug/L	84	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tetrachloroethene	10	10	ug/L	103	SW846 8260B
Toluene	10	8.5	ug/L	85	SW846 8260B
1,2,3-Trichlorobenzene	10	10	ug/L	102	SW846 8260B
1,2,4-Trichloro- benzene	10	10	ug/L	101	SW846 8260B
1,1,1-Trichloroethane	10	11	ug/L	113	SW846 8260B
1,1,2-Trichloroethane	10	9.4	ug/L	94	SW846 8260B
Trichloroethene	10	11	ug/L	105	SW846 8260B
Trichlorofluoromethane	10	14	ug/L	138	SW846 8260B
1,2,3-Trichloropropane	10	8.7	ug/L	87	SW846 8260B
1,2,4-Trimethylbenzene	10	9.3	ug/L	93	SW846 8260B
1,3,5-Trimethylbenzene	10	9.0	ug/L	90	SW846 8260B
Vinyl chloride	10	11	ug/L	109	SW846 8260B
m-Xylene & p-Xylene	20	19	ug/L	97	SW846 8260B
o-Xylene	10	9.8	ug/L	98	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	98	(72 - 121)			SW846 8260B
	106	(72 - 121)	7.4	(0-30)	SW846 8260B
Bromobenzene	85	(71 - 116)			SW846 8260B
	89	(71 - 116)	4.8	(0-30)	SW846 8260B
Acetone	76	(33 - 145)			SW846 8260B
	84	(33 - 145)	8.3	(0-30)	SW846 8260B
Carbon disulfide	95	(57 - 147)			SW846 8260B
	101	(57 - 147)	6.2	(0-30)	SW846 8260B
Bromochloromethane	96	(73 - 121)			SW846 8260B
	105	(73 - 121)	9.1	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	92	(75 - 119)			SW846 8260B
	92	(75 - 119)	0.30	(0-30)	SW846 8260B
Bromodichloromethane	99	(67 - 120)			SW846 8260B
	104	(67 - 120)	4.8	(0-30)	SW846 8260B
2-Butanone	105	(54 - 129)			SW846 8260B
	112	(54 - 129)	6.8	(0-30)	SW846 8260B
Bromoform	77	(32 - 128)			SW846 8260B
	79	(32 - 128)	2.6	(0-30)	SW846 8260B
Bromomethane	94	(10 - 186)			SW846 8260B
	101	(10 - 186)	7.5	(0-30)	SW846 8260B
n-Butylbenzene	98	(56 - 127)			SW846 8260B
	104	(56 - 127)	6.8	(0-30)	SW846 8260B
4-Methyl-2-pentanone	103	(56 - 131)			SW846 8260B
	107	(56 - 131)	3.9	(0-30)	SW846 8260B
sec-Butylbenzene	92	(60 - 119)			SW846 8260B
	98	(60 - 119)	6.4	(0-30)	SW846 8260B
2-Hexanone	89	(47 - 139)			SW846 8260B
	92	(47 - 139)	4.0	(0-30)	SW846 8260B
tert-Butylbenzene	92	(61 - 119)			SW846 8260B
	97	(61 - 119)	5.6	(0-30)	SW846 8260B
Carbon tetrachloride	107	(59 - 129)			SW846 8260B
	110	(59 - 129)	3.1	(0-30)	SW846 8260B
Xylenes (total)	93	(76 - 116)			SW846 8260B
	104	(76 - 116)	11	(0-30)	SW846 8260B
Chlorobenzene	89	(80 - 110)			SW846 8260B
	98	(80 - 110)	9.1	(0-30)	SW846 8260B
Dibromochloromethane	87	(56 - 118)			SW846 8260B
	95	(56 - 118)	9.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	125	(70 - 152)			SW846 8260B
	116	(70 - 152)	7.0	(0-30)	SW846 8260B
Methyl acetate	85	(47 - 130)			SW846 8260B
	89	(47 - 130)	5.1	(0-30)	SW846 8260B
Chloroethane	104	(21 - 165)			SW846 8260B
	112	(21 - 165)	7.1	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	87	(46 - 144)			SW846 8260B
	94	(46 - 144)	7.9	(0-30)	SW846 8260B
Cyclohexane	114	(49 - 123)			SW846 8260B
	110	(49 - 123)	4.2	(0-30)	SW846 8260B
Methylcyclohexane	122	(49 - 127)			SW846 8260B
	111	(49 - 127)	9.7	(0-30)	SW846 8260B
Chloroform	98	(76 - 118)			SW846 8260B
	106	(76 - 118)	7.6	(0-30)	SW846 8260B
Chloromethane	64	(33 - 132)			SW846 8260B
	71	(33 - 132)	9.2	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(32 - 139)			SW846 8260B
	102	(32 - 139)	7.2	(0-30)	SW846 8260B
2-Chlorotoluene	86	(69 - 117)			SW846 8260B
	91	(69 - 117)	5.9	(0-30)	SW846 8260B
Methyl tert-butyl ether	87	(46 - 144)			SW846 8260B
	94	(46 - 144)	7.9	(0-30)	SW846 8260B
n-Hexane	134	(54 - 138)			SW846 8260B
	102	(54 - 138)	27	(0-30)	SW846 8260B
4-Chlorotoluene	87	(71 - 116)			SW846 8260B
	91	(71 - 116)	5.2	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	89 p	(10 - 150)	200	(0-30)	SW846 8260B
Acetonitrile	127	(12 - 182)			SW846 8260B
	132	(12 - 182)	4.5	(0-30)	SW846 8260B
1,2-Dibromoethane	92	(74 - 113)			SW846 8260B
	97	(74 - 113)	6.0	(0-30)	SW846 8260B
Acrolein	91	(47 - 168)			SW846 8260B
	91	(47 - 168)	0.98	(0-30)	SW846 8260B
Acrylonitrile	88	(62 - 133)			SW846 8260B
	88	(62 - 133)	0.01	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl acetate	128	(43 - 157)			SW846 8260B
	118	(43 - 157)	8.6	(0-30)	SW846 8260B
Dibromomethane	105	(77 - 121)			SW846 8260B
	109	(77 - 121)	4.5	(0-30)	SW846 8260B
1,2-Dichlorobenzene	88	(75 - 111)			SW846 8260B
	97	(75 - 111)	11	(0-30)	SW846 8260B
1,3-Dichlorobenzene	85	(73 - 110)			SW846 8260B
	94	(73 - 110)	9.4	(0-30)	SW846 8260B
1,4-Dichlorobenzene	86	(75 - 110)			SW846 8260B
	92	(75 - 110)	7.4	(0-30)	SW846 8260B
Iodomethane	102	(66 - 144)			SW846 8260B
	116	(66 - 144)	13	(0-30)	SW846 8260B
Isopropyl ether	90	(73 - 118)			SW846 8260B
	85	(73 - 118)	4.9	(0-30)	SW846 8260B
Dichlorodifluoromethane	66	(17 - 128)			SW846 8260B
	58	(17 - 128)	12	(0-30)	SW846 8260B
1,1-Dichloroethane	99	(79 - 116)			SW846 8260B
	91	(79 - 116)	7.6	(0-30)	SW846 8260B
1,2-Dichloroethane	103	(68 - 129)			SW846 8260B
	110	(68 - 129)	6.9	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	97	(70 - 120)			SW846 8260B
	94	(70 - 120)	3.4	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	86	(80 - 119)			SW846 8260B
	90	(80 - 119)	4.5	(0-30)	SW846 8260B
1,1-Dichloroethene	90	(74 - 135)			SW846 8260B
	92	(74 - 135)	2.8	(0-30)	SW846 8260B
1,2-Dichloropropane	99	(78 - 115)			SW846 8260B
	106	(78 - 115)	6.8	(0-30)	SW846 8260B
1,3-Dichloropropane	90	(74 - 118)			SW846 8260B
	97	(74 - 118)	7.9	(0-30)	SW846 8260B
2,2-Dichloropropane	96	(38 - 127)			SW846 8260B
	104	(38 - 127)	7.9	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	90	(51 - 110)			SW846 8260B
	99	(51 - 110)	9.2	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	93	(46 - 116)			SW846 8260B
	98	(46 - 116)	6.1	(0-30)	SW846 8260B
1,1-Dichloropropene	109	(80 - 114)			SW846 8260B
	109	(80 - 114)	0.50	(0-30)	SW846 8260B
Ethylbenzene	92	(75 - 116)			SW846 8260B
	102	(75 - 116)	10	(0-30)	SW846 8260B
Hexachlorobutadiene	103	(27 - 132)			SW846 8260B
	107	(27 - 132)	4.3	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Isopropylbenzene	95	(68 - 116)			SW846 8260B
	106	(68 - 116)	11	(0-30)	SW846 8260B
p-Isopropyltoluene	97	(64 - 122)			SW846 8260B
	105	(64 - 122)	8.6	(0-30)	SW846 8260B
Methylene chloride	79	(63 - 128)			SW846 8260B
	88	(63 - 128)	10	(0-30)	SW846 8260B
Naphthalene	88	(15 - 158)			SW846 8260B
	100	(15 - 158)	13	(0-30)	SW846 8260B
n-Propylbenzene	91	(64 - 124)			SW846 8260B
	95	(64 - 124)	4.9	(0-30)	SW846 8260B
Styrene	95	(71 - 117)			SW846 8260B
	104	(71 - 117)	9.6	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	90	(64 - 118)			SW846 8260B
	101	(64 - 118)	12	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	85	(63 - 122)			SW846 8260B
	89	(63 - 122)	3.7	(0-30)	SW846 8260B
Tetrachloroethene	97	(70 - 117)			SW846 8260B
	104	(70 - 117)	7.1	(0-30)	SW846 8260B
Toluene	90	(78 - 114)			SW846 8260B
	101	(78 - 114)	11	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	98	(45 - 129)			SW846 8260B
	115	(45 - 129)	16	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	95	(38 - 138)			SW846 8260B
	114	(38 - 138)	17	(0-30)	SW846 8260B
1,1,1-Trichloroethane	101	(68 - 121)			SW846 8260B
	107	(68 - 121)	6.2	(0-30)	SW846 8260B
1,1,2-Trichloroethane	91	(75 - 115)			SW846 8260B
	100	(75 - 115)	9.6	(0-30)	SW846 8260B
Trichloroethene	105	(66 - 120)			SW846 8260B
	106	(66 - 120)	1.4	(0-30)	SW846 8260B
Trichlorofluoromethane	117	(46 - 157)			SW846 8260B
	108	(46 - 157)	5.5	(0-30)	SW846 8260B
1,2,3-Trichloropropane	90	(67 - 132)			SW846 8260B
	90	(67 - 132)	0.30	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	91	(67 - 124)			SW846 8260B
	101	(67 - 124)	9.9	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	89	(63 - 121)			SW846 8260B
	97	(63 - 121)	8.6	(0-30)	SW846 8260B
Vinyl chloride	86	(49 - 130)			SW846 8260B
	92	(49 - 130)	6.8	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
m-Xylene & p-Xylene	93	(75 - 117)			SW846 8260B
	104	(75 - 117)	10	(0-30)	SW846 8260B
o-Xylene	93	(76 - 116)			SW846 8260B
	106	(76 - 116)	14	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
	92	(63 - 129)
Toluene-d8	91	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)
	99	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	11	ug/L	106	7.4	SW846 8260B
Bromobenzene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	4.8	SW846 8260B
Acetone	ND	20	19	ug/L	76		SW846 8260B
	ND	20	21	ug/L	84	8.3	SW846 8260B
Carbon disulfide	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	101	6.2	SW846 8260B
Bromochloromethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	105	9.1	SW846 8260B
1,2-Dichloroethene (total)	ND	20	19	ug/L	92		SW846 8260B
	ND	20	19	ug/L	92	0.30	SW846 8260B
Bromodichloromethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	104	4.8	SW846 8260B
2-Butanone	ND	20	21	ug/L	105		SW846 8260B
	ND	20	22	ug/L	112	6.8	SW846 8260B
Bromoform	ND	10	7.7	ug/L	77		SW846 8260B
	ND	10	7.9	ug/L	79	2.6	SW846 8260B
Bromomethane	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	10	ug/L	101	7.5	SW846 8260B
n-Butylbenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	104	6.8	SW846 8260B
4-Methyl-2-pentanone	ND	20	21	ug/L	103		SW846 8260B
	ND	20	21	ug/L	107	3.9	SW846 8260B
sec-Butylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.8	ug/L	98	6.4	SW846 8260B
2-Hexanone	ND	20	18	ug/L	89		SW846 8260B
	ND	20	18	ug/L	92	4.0	SW846 8260B
tert-Butylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.7	ug/L	97	5.6	SW846 8260B
Carbon tetrachloride	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	110	3.1	SW846 8260B
Xylenes (total)	ND	30	28	ug/L	93		SW846 8260B
	ND	30	31	ug/L	104	11	SW846 8260B
Chlorobenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.8	ug/L	98	9.1	SW846 8260B
Dibromochloromethane	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.5	ug/L	95	9.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	13	ug/L	125		SW846 8260B
	ND	10	12	ug/L	116	7.0	SW846 8260B
Methyl acetate	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	5.1	SW846 8260B
Chloroethane	ND	10	10	ug/L	104		SW846 8260B
	ND	10	11	ug/L	112	7.1	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.4	ug/L	94	7.9	SW846 8260B
Cyclohexane	ND	10	11	ug/L	114		SW846 8260B
	ND	10	11	ug/L	110	4.2	SW846 8260B
Methylcyclohexane	ND	10	12	ug/L	122		SW846 8260B
	ND	10	11	ug/L	111	9.7	SW846 8260B
Chloroform	ND	10	10	ug/L	98		SW846 8260B
	ND	10	11	ug/L	106	7.6	SW846 8260B
Chloromethane	ND	10	6.4	ug/L	64		SW846 8260B
	ND	10	7.1	ug/L	71	9.2	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	102	7.2	SW846 8260B
2-Chlorotoluene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.1	ug/L	91	5.9	SW846 8260B
Methyl tert-butyl ether	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.4	ug/L	94	7.9	SW846 8260B
n-Hexane	ND	10	13	ug/L	134		SW846 8260B
	ND	10	10	ug/L	102	27	SW846 8260B
4-Chlorotoluene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.1	ug/L	91	5.2	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	0.0	ug/L	0.0 a		SW846 8260B
	ND	10	8.9	ug/L	89 p	200	SW846 8260B
Acetonitrile	ND	30	38	ug/L	127		SW846 8260B
	ND	30	40	ug/L	132	4.5	SW846 8260B
1,2-Dibromoethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.7	ug/L	97	6.0	SW846 8260B
Acrolein	ND	30	27	ug/L	91		SW846 8260B
	ND	30	27	ug/L	91	0.98	SW846 8260B
Acrylonitrile	ND	30	26	ug/L	88		SW846 8260B
	ND	30	26	ug/L	88	0.01	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Vinyl acetate	ND	10	13	ug/L	128		SW846 8260B
	ND	10	12	ug/L	118	8.6	SW846 8260B
Dibromomethane	ND	10	10	ug/L	105		SW846 8260B
	ND	10	11	ug/L	109	4.5	SW846 8260B
1,2-Dichlorobenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.7	ug/L	97	11	SW846 8260B
1,3-Dichlorobenzene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	9.4	ug/L	94	9.4	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.2	ug/L	92	7.4	SW846 8260B
Iodomethane	ND	10	10	ug/L	102		SW846 8260B
	ND	10	12	ug/L	116	13	SW846 8260B
Isopropyl ether	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	8.5	ug/L	85	4.9	SW846 8260B
Dichlorodifluoromethane	ND	10	7.5	ug/L	66		SW846 8260B
	ND	10	6.6	ug/L	58	12	SW846 8260B
1,1-Dichloroethane	1.2	10	11	ug/L	99		SW846 8260B
	1.2	10	10	ug/L	91	7.6	SW846 8260B
1,2-Dichloroethane	ND	10	10	ug/L	103		SW846 8260B
	ND	10	11	ug/L	110	6.9	SW846 8260B
cis-1,2-Dichloroethene	ND	10	10	ug/L	97		SW846 8260B
	ND	10	9.8	ug/L	94	3.4	SW846 8260B
trans-1,2-Dichloroethene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.0	ug/L	90	4.5	SW846 8260B
1,1-Dichloroethene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.2	ug/L	92	2.8	SW846 8260B
1,2-Dichloropropane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	11	ug/L	106	6.8	SW846 8260B
1,3-Dichloropropane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.7	ug/L	97	7.9	SW846 8260B
2,2-Dichloropropane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	104	7.9	SW846 8260B
cis-1,3-Dichloropropene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.9	ug/L	99	9.2	SW846 8260B
trans-1,3-Dichloropropene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.8	ug/L	98	6.1	SW846 8260B
1,1-Dichloropropene	ND	10	11	ug/L	109		SW846 8260B
	ND	10	11	ug/L	109	0.50	SW846 8260B
Ethylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	10	ug/L	102	10	SW846 8260B
Hexachlorobutadiene	ND	10	10	ug/L	103		SW846 8260B
	ND	10	11	ug/L	107	4.3	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Isopropylbenzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	11	ug/L	106	11	SW846 8260B
p-Isopropyltoluene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	11	ug/L	105	8.6	SW846 8260B
Methylene chloride	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	8.8	ug/L	88	10	SW846 8260B
Naphthalene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	10	ug/L	100	13	SW846 8260B
n-Propylbenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.5	ug/L	95	4.9	SW846 8260B
Styrene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	104	9.6	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	10	ug/L	101	12	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	3.7	SW846 8260B
Tetrachloroethene	ND	10	10	ug/L	97		SW846 8260B
	ND	10	11	ug/L	104	7.1	SW846 8260B
Toluene	ND	10	9.2	ug/L	90		SW846 8260B
	ND	10	10	ug/L	101	11	SW846 8260B
1,2,3-Trichlorobenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	11	ug/L	115	16	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	11	ug/L	114	17	SW846 8260B
1,1,1-Trichloroethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	11	ug/L	107	6.2	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	10	ug/L	100	9.6	SW846 8260B
Trichloroethene	1.1	10	12	ug/L	105		SW846 8260B
	1.1	10	12	ug/L	106	1.4	SW846 8260B
Trichlorofluoromethane	5.8	10	17	ug/L	117		SW846 8260B
	5.8	10	17	ug/L	108	5.5	SW846 8260B
1,2,3-Trichloropropane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.0	ug/L	90	0.30	SW846 8260B
1,2,4-Trimethylbenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	10	ug/L	101	9.9	SW846 8260B
1,3,5-Trimethylbenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.7	ug/L	97	8.6	SW846 8260B
Vinyl chloride	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.2	ug/L	92	6.8	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A060436 Work Order #...: MC5JF1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
m-Xylene & p-Xylene	ND	20	19	ug/L	93		SW846 8260B
	ND	20	21	ug/L	104	10	SW846 8260B
o-Xylene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	11	ug/L	106	14	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
	92	(63 - 129)
Toluene-d8	91	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)
	99	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

END OF REPORT

ANALYTICAL REPORT

PROJECT NO. KC001590.0003.00002

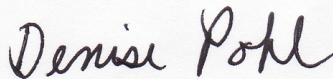
TRW OGVOU2

Lot #: A1A070479

Paul Jack, ESPM

TRW Automotive Inc
12025 Tech Center Drive
Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
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Approved for release.
Denise Pohl
Project Manager
1/18/2011 1:18 PM

January 18, 2011

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720

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CASE NARRATIVE

CASE NARRATIVE

A1A070479

The following report contains the analytical results for one water sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGVOU2 Site, project number KC001590.0003.00002. The samples were received January 07, 2011, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Alex Walter, Paul Jack, John Shonfelt, and Kirsten Wright on January 11, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.0°C.

GC/MS VOLATILES

The matrix spike/matrix spike duplicate(s) for MW-108BH@210(20110106) had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA _CWA 032609.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A1A070479

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
MW-108BH@210(20110106) 01/06/11 09:30 001				
1,1-Dichloroethane	1.2	1.0	ug/L	SW846 8260B
Dichlorofluoromethane	39	2.0	ug/L	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	5.8	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A1A070479

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A1A070479

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MC5JF	001	MW-108BH@210 (20110106)	01/06/11	09:30
MC5JN	002	TB-20110106	01/06/11	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS



8725 Rosehill - Ste 350, Lenexa, KS 66278

Laboratory Task Order No./P.O. No.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1 ¹⁴

Project Number/Name KC001590.0003.00002 / TRW 06V 0U2

Project Location City of Sullivan, MO Landfill

Laboratory TA - NORTH CANTON; ATTN: Denise Poh

Project Manager John Shonfelt

Sampler(s)/Affiliation Larry Benolkin / APCADIS

ANALYSIS / METHOD / SIZE

VOCs EPA 8260B

LOC# 245

[illegible]

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/
Containers

5

Relinquished by: <u>Dany Benth</u>	Organization: <u>ARCADIS</u>	Date: <u>1 / 6 / 2011</u>	Time: <u>1530</u>	Seal Intact?
Received by: <u>Chris Jones</u>	Organization: <u>TBL</u>	Date: <u>1 / 7 / 11</u>	Time: <u>920</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1 / 1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1 / 1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: 48-hr (2Bday) TAT

Delivery Method: ☐ In Person

☒ Common Carrier FedEx 8715 8796 1213 ☐ Lab Courier

☐ Other

SPECIFY

AG 05-12/01

North Canton

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: ALA070479

Client Aracelis Project TRW 06V 002 By: Ch. L. Jones
 Cooler Received on 1-7-11 Opened on 1-7-11 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐
 TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
 If YES, Quantity 1 Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
 Were custody seals on the bottle(s)? Yes ☐ No ☒
 If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☐
 3. Did custody papers accompany the sample(s)? Yes ☐ No ☐ Relinquished by client? Yes ☐ No ☒
 4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
 5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
 6. Cooler temperature upon receipt 1.0 °C See back of form for multiple coolers/temps ☐
 METHOD: IR ☒ Other ☐
 COOLANT: Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
 7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
 8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
 9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
 10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
 11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
 12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
 13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐
- Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
 Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative

North Canton Facility

[illegible]

Discrepancies Cont'd:

[illegible]

GCMS VOLATILE DATA

QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Lot #: A1A070479

Extraction: XXI25QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	MW-108BH@210' (20110106)	97	96	87	91	00
02	TB-20110106	100	99	92	88	00
03	METHOD BLK. MC6XD1AA	96	96	92	88	00
04	LCS MC6XD1AC	102	108	84	103	00
05	MW-108BH@210' (20110106) D	95	92	94	99	00
06	MW-108BH@210' (20110106) S	96	94	91	98	00

SURROGATES

SRG01 = Dibromofluoromethane
 SRG02 = 1,2-Dichloroethane-d4
 SRG03 = Toluene-d8
 SRG04 = 4-Bromofluorobenzene

QC LIMITS

(75-121)
 (63-129)
 (74-115)
 (66-117)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Lot #: A1A100000

WO #: MC6XD1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Chloromethane	10	8.0	80	44- 126	
Bromomethane	10	10	104	11- 185	
Vinyl chloride	10	11	109	53- 127	
Chloroethane	10	11	112	25- 153	
Methylene chloride	10	9.7	97	66- 131	
Acetone	20	21	103	43- 136	
Carbon disulfide	10	11	108	62- 142	
1,1-Dichloroethene	10	10	103	78- 131	
1,1-Dichloroethane	10	9.9	99	82- 115	
1,2-Dichloroethene (total	20	19	97	82- 114	
Chloroform	10	11	107	79- 117	
1,2-Dichloroethane	10	12	119	71- 127	
2-Butanone	20	22	108	60- 126	
1,1,1-Trichloroethane	10	11	113	74- 118	
Carbon tetrachloride	10	13	131*	66- 128	a
Bromodichloromethane	10	11	109	72- 121	
1,2-Dichloropropane	10	9.9	99	81- 115	
cis-1,3-Dichloropropene	10	10	101	61- 115	
Trichloroethene	10	11	105	76- 117	
Dibromochloromethane	10	9.9	99	64- 119	
1,1,2-Trichloroethane	10	9.4	94	80- 112	
Benzene	10	9.9	99	83- 112	
trans-1,3-Dichloropropene	10	9.5	95	58- 117	
Bromoform	10	8.8	88	40- 131	
4-Methyl-2-pentanone	20	21	107	63- 128	
2-Hexanone	20	19	97	55- 133	
Tetrachloroethene	10	10	103	79- 114	
1,1,2,2-Tetrachloroethane	10	8.4	84	68- 118	
Toluene	10	8.5	85	84- 111	
Chlorobenzene	10	9.2	92	85- 110	
Ethylbenzene	10	9.6	96	83- 112	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Lot #: A1A100000

WO #: MC6XD1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Styrene	10	10	101	79- 114	
Xylenes (total)	30	29	97	83- 112	
cis-1,2-Dichloroethene	10	9.6	96	80- 113	
trans-1,2-Dichloroethene	10	9.8	98	83- 117	
Dichlorodifluoromethane	10	8.2	82	19- 129	
Trichlorofluoromethane	10	14	138	49- 157	
1,1,2-Trichloro-1,2,2-tri	10	16	155*	74- 151	a
Methyl acetate	10	9.9	99	58- 131	
Methyl tert-butyl ether (	10	9.9	99	52- 144	
Cyclohexane	10	12	116	54- 121	
Methylcyclohexane	10	13	126	56- 127	
1,2-Dibromoethane	10	9.8	98	79- 113	
Isopropylbenzene	10	10	100	75- 114	
1,3-Dichlorobenzene	10	8.7	87	80- 110	
1,4-Dichlorobenzene	10	8.7	87	82- 110	
1,2-Dichlorobenzene	10	9.0	90	81- 110	
1,2-Dibromo-3-chloropropa	10	9.5	95	42- 136	
1,2,4-Trichlorobenzene	10	10	101	48- 135	
Methyl tert-butyl ether	10	9.9	99	52- 144	
n-Hexane	10	13	133	66- 137	
o-Xylene	10	9.8	98	83- 113	
m-Xylene & p-Xylene	20	19	97	83- 113	
2-Chloroethyl vinyl ether	10	8.4	84	52- 131	
Acetonitrile	30	50	166	15- 184	
Acrolein	30	31	103	51- 170	
Vinyl acetate	10	9.4	94	46- 161	
Acrylonitrile	30	29	98	66- 132	
Bromobenzene	10	8.4	84	76- 115	
Bromochloromethane	10	10	103	77- 120	
n-Butylbenzene	10	10	100	66- 125	
sec-Butylbenzene	10	9.5	95	70- 117	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Lot #: A1A100000

WO #: MC6XD1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
tert-Butylbenzene	10	10	103	71- 115	
2-Chlorotoluene	10	8.6	86	76- 116	
4-Chlorotoluene	10	8.8	88	77- 115	
Dibromomethane	10	11	113	81- 120	
1,3-Dichloropropane	10	9.5	95	79- 116	
2,2-Dichloropropane	10	10	103	50- 129	
1,1-Dichloropropene	10	11	108	83- 114	
Hexachlorobutadiene	10	11	105	36- 134	
Iodomethane	10	12	119	72- 141	
Isopropyl ether	10	9.1	91	77- 118	
p-Isopropyltoluene	10	9.9	99	74- 120	
Naphthalene	10	8.8	88	32- 141	
n-Propylbenzene	10	9.2	92	74- 121	
1,1,1,2-Tetrachloroethane	10	9.6	96	72- 116	
1,2,3-Trichlorobenzene	10	10	102	54- 126	
1,2,3-Trichloropropane	10	8.7	87	73- 129	
1,2,4-Trimethylbenzene	10	9.3	93	76- 120	
1,3,5-Trimethylbenzene	10	9.0	90	72- 118	

NOTES(S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 80 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: MW-108BH@210'(20110106)

Lot #: A1A070479

WO #: MC5JF1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	10	ND	9.0	90	74- 135	
Chloromethane	10	ND	6.4	64	33- 132	
2-Chlorotoluene	10	ND	8.6	86	69- 117	
4-Chlorotoluene	10	ND	8.7	87	71- 116	
Bromomethane	10	ND	9.4	94	10- 186	
Vinyl chloride	10	ND	8.6	86	49- 130	
Chloroethane	10	ND	10	104	21- 165	
Methylene chloride	10	ND	7.9	79	63- 128	
Acetone	20	ND	19	76	33- 145	
Carbon disulfide	10	ND	9.5	95	57- 147	
1,1-Dichloroethane	10	1.2	11	99	79- 116	
1,2-Dichloroethene (total	20	ND	19	92	75- 119	
Chloroform	10	ND	10	98	76- 118	
1,2-Dichloroethane	10	ND	10	103	68- 129	
2-Butanone	20	ND	21	105	54- 129	
1,1,1-Trichloroethane	10	ND	10	101	68- 121	
Carbon tetrachloride	10	ND	11	107	59- 129	
Bromodichloromethane	10	ND	9.9	99	67- 120	
1,2-Dichloropropane	10	ND	9.9	99	78- 115	
cis-1,3-Dichloropropene	10	ND	9.0	90	51- 110	
Trichloroethene	10	1.1	12	105	66- 120	
Dibromochloromethane	10	ND	8.7	87	56- 118	
1,1,2-Trichloroethane	10	ND	9.1	91	75- 115	
Benzene	10	ND	9.8	98	72- 121	
trans-1,3-Dichloropropene	10	ND	9.3	93	46- 116	
Bromoform	10	ND	7.7	77	32- 128	
4-Methyl-2-pentanone	20	ND	21	103	56- 131	
2-Hexanone	20	ND	18	89	47- 139	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: MW-108BH@210'(20110106)

Lot #: A1A070479

WO #: MC5JF1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Tetrachloroethene	10	ND	10	97	70- 117	
1,1,2,2-Tetrachloroethane	10	ND	8.5	85	63- 122	
Toluene	10	ND	9.2	90	78- 114	
Chlorobenzene	10	ND	8.9	89	80- 110	
Ethylbenzene	10	ND	9.2	92	75- 116	
Styrene	10	ND	9.5	95	71- 117	
Xylenes (total)	30	ND	28	93	76- 116	
cis-1,2-Dichloroethene	10	ND	10	97	70- 120	
trans-1,2-Dichloroethene	10	ND	8.6	86	80- 119	
Dichlorodifluoromethane	10	ND	7.5	66	17- 128	
Trichlorofluoromethane	10	5.8	17	117	46- 157	
1,1,2-Trichloro-1,2,2-tri	10	ND	13	125	70- 152	
Methyl acetate	10	ND	8.5	85	47- 130	
Methyl tert-butyl ether (	10	ND	8.7	87	46- 144	
Cyclohexane	10	ND	11	114	49- 123	
Methylcyclohexane	10	ND	12	122	49- 127	
1,2-Dibromoethane	10	ND	9.2	92	74- 113	
Isopropylbenzene	10	ND	9.5	95	68- 116	
1,3-Dichlorobenzene	10	ND	8.5	85	73- 110	
1,4-Dichlorobenzene	10	ND	8.6	86	75- 110	
1,2-Dichlorobenzene	10	ND	8.8	88	75- 111	
1,2-Dibromo-3-chloropropa	10	ND	9.5	95	32- 139	
1,2,4-Trichlorobenzene	10	ND	9.5	95	38- 138	
Methyl tert-butyl ether	10	ND	8.7	87	46- 144	
n-Hexane	10	ND	13	134	54- 138	
o-Xylene	10	ND	9.3	93	76- 116	
m-Xylene & p-Xylene	20	ND	19	93	75- 117	
2-Chloroethyl vinyl ether	10	ND	0.0	0*	10- 150	a

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: MW-108BH@210'(20110106)

Lot #: A1A070479

WO #: MC5JF1AC

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Acetonitrile	30	ND	38	127	12- 182	
Acrolein	30	ND	27	91	47- 168	
Acrylonitrile	30	ND	26	88	62- 133	
Vinyl acetate	10	ND	13	128	43- 157	
Bromobenzene	10	ND	8.5	85	71- 116	
Bromochloromethane	10	ND	9.6	96	73- 121	
n-Butylbenzene	10	ND	9.8	98	56- 127	
sec-Butylbenzene	10	ND	9.2	92	60- 119	
tert-Butylbenzene	10	ND	9.2	92	61- 119	
Dibromomethane	10	ND	10	105	77- 121	
1,3-Dichloropropane	10	ND	9.0	90	74- 118	
2,2-Dichloropropane	10	ND	9.6	96	38- 127	
1,1-Dichloropropene	10	ND	11	109	80- 114	
Hexachlorobutadiene	10	ND	10	103	27- 132	
Iodomethane	10	ND	10	102	66- 144	
Isopropyl ether	10	ND	9.0	90	73- 118	
p-Isopropyltoluene	10	ND	9.7	97	64- 122	
Naphthalene	10	ND	8.8	88	15- 158	
n-Propylbenzene	10	ND	9.1	91	64- 124	
1,1,1,2-Tetrachloroethane	10	ND	9.0	90	64- 118	
1,2,3-Trichlorobenzene	10	ND	9.8	98	45- 129	
1,2,3-Trichloropropane	10	ND	9.0	90	67- 132	
1,2,4-Trimethylbenzene	10	ND	9.1	91	67- 124	
1,3,5-Trimethylbenzene	10	ND	8.9	89	63- 121	

NOTES(S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 80 outside limits

COMMENTS :

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: MW-108BH@210'(20110106)

Lot #: A1A070479

WO #: MC5JF1AD

BATCH: 1010112

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
=====	=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	10	9.2	92	2.8	30	74- 135	
Chloromethane	10	7.1	71	9.2	30	33- 132	
Bromomethane	10	10	101	7.5	30	10- 186	
Vinyl chloride	10	9.2	92	6.8	30	49- 130	
Chloroethane	10	11	112	7.1	30	21- 165	
Methylene chloride	10	8.8	88	10	30	63- 128	
Acetone	20	21	84	8.3	30	33- 145	
Carbon disulfide	10	10	101	6.2	30	57- 147	
1,1-Dichloroethane	10	10	91	7.6	30	79- 116	
1,2-Dichloroethene (total	20	19	92	0.30	30	75- 119	
Chloroform	10	11	106	7.6	30	76- 118	
1,2-Dichloroethane	10	11	110	6.9	30	68- 129	
2-Butanone	20	22	112	6.8	30	54- 129	
1,1,1-Trichloroethane	10	11	107	6.2	30	68- 121	
Carbon tetrachloride	10	11	110	3.1	30	59- 129	
Bromodichloromethane	10	10	104	4.8	30	67- 120	
1,2-Dichloropropane	10	11	106	6.8	30	78- 115	
cis-1,3-Dichloropropene	10	9.9	99	9.2	30	51- 110	
Trichloroethene	10	12	106	1.4	30	66- 120	
Dibromochloromethane	10	9.5	95	9.1	30	56- 118	
1,1,2-Trichloroethane	10	10	100	9.6	30	75- 115	
Benzene	10	11	106	7.4	30	72- 121	
trans-1,3-Dichloropropene	10	9.8	98	6.1	30	46- 116	
Bromoform	10	7.9	79	2.6	30	32- 128	
4-Methyl-2-pentanone	20	21	107	3.9	30	56- 131	
2-Hexanone	20	18	92	4.0	30	47- 139	
Tetrachloroethene	10	11	104	7.1	30	70- 117	
1,1,2,2-Tetrachloroethane	10	8.9	89	3.7	30	63- 122	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: MW-108BH@210'(20110106)

Lot #: A1A070479

WO #: MC5JF1AD

BATCH: 1010112

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
=====	=====	=====	=====	=====	=====	=====	=====
Toluene	10	10	101	11	30	78- 114	
Chlorobenzene	10	9.8	98	9.1	30	80- 110	
Ethylbenzene	10	10	102	10	30	75- 116	
Styrene	10	10	104	9.6	30	71- 117	
Xylenes (total)	30	31	104	11	30	76- 116	
cis-1,2-Dichloroethene	10	9.8	94	3.4	30	70- 120	
trans-1,2-Dichloroethene	10	9.0	90	4.5	30	80- 119	
Dichlorodifluoromethane	10	6.6	58	12	30	17- 128	
Trichlorofluoromethane	10	17	108	5.5	30	46- 157	
1,1,2-Trichloro-1,2,2-tri	10	12	116	7.0	30	70- 152	
Methyl acetate	10	8.9	89	5.1	30	47- 130	
Methyl tert-butyl ether (	10	9.4	94	7.9	30	46- 144	
Cyclohexane	10	11	110	4.2	30	49- 123	
Methylcyclohexane	10	11	111	9.7	30	49- 127	
1,2-Dibromoethane	10	9.7	97	6.0	30	74- 113	
Isopropylbenzene	10	11	106	11	30	68- 116	
1,3-Dichlorobenzene	10	9.4	94	9.4	30	73- 110	
1,4-Dichlorobenzene	10	9.2	92	7.4	30	75- 110	
1,2-Dichlorobenzene	10	9.7	97	11	30	75- 111	
1,2-Dibromo-3-chloropropa	10	10	102	7.2	30	32- 139	
1,2,4-Trichlorobenzene	10	11	114	17	30	38- 138	
Methyl tert-butyl ether	10	9.4	94	7.9	30	46- 144	
n-Hexane	10	10	102	27	30	54- 138	
o-Xylene	10	11	106	14	30	76- 116	
m-Xylene & p-Xylene	20	21	104	10	30	75- 117	
2-Chloroethyl vinyl ether	10	8.9	89	200	*	10- 150	p
Acetonitrile	30	40	132	4.5	30	12- 182	
Acrolein	30	27	91	0.98	30	47- 168	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: TRW Automotive

Lab Code: TALCAN

SDG No:

Matrix Spike ID: MW-108BH@210'(20110106)

Lot #: A1A070479

WO #: MC5JF1AD

BATCH: 1010112

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
=====	=====	=====	=====	=====	=====	=====	=====
Acrylonitrile	30	26	88	0.010	30	62- 133	
Vinyl acetate	10	12	118	8.6	30	43- 157	
Bromobenzene	10	8.9	89	4.8	30	71- 116	
Bromochloromethane	10	10	105	9.1	30	73- 121	
n-Butylbenzene	10	10	104	6.8	30	56- 127	
sec-Butylbenzene	10	9.8	98	6.4	30	60- 119	
tert-Butylbenzene	10	9.7	97	5.6	30	61- 119	
2-Chlorotoluene	10	9.1	91	5.9	30	69- 117	
4-Chlorotoluene	10	9.1	91	5.2	30	71- 116	
Dibromomethane	10	11	109	4.5	30	77- 121	
1,3-Dichloropropane	10	9.7	97	7.9	30	74- 118	
2,2-Dichloropropane	10	10	104	7.9	30	38- 127	
1,1-Dichloropropene	10	11	109	0.50	30	80- 114	
Hexachlorobutadiene	10	11	107	4.3	30	27- 132	
Iodomethane	10	12	116	13	30	66- 144	
Isopropyl ether	10	8.5	85	4.9	30	73- 118	
p-Isopropyltoluene	10	11	105	8.6	30	64- 122	
Naphthalene	10	10	100	13	30	15- 158	
n-Propylbenzene	10	9.5	95	4.9	30	64- 124	
1,1,1,2-Tetrachloroethane	10	10	101	12	30	64- 118	
1,2,3-Trichlorobenzene	10	11	115	16	30	45- 129	
1,2,3-Trichloropropane	10	9.0	90	0.30	30	67- 132	
1,2,4-Trimethylbenzene	10	10	101	9.9	30	67- 124	
1,3,5-Trimethylbenzene	10	9.7	97	8.6	30	63- 121	

NOTES(S) :

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 80 outside limits

Spike Recovery: 0 out of 80 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

MC6XD1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: UXX7995.D

Lot Number: A1A070479

Date Analyzed: 01/10/11

Time Analyzed: 10:56

Matrix: WATER

Date Extracted:01/10/11

GC Column: DB 624 ID: .18

Extraction Method: 5030B

Instrument ID: UX10

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	=====	=====	=====	=====	=====
01	MW-108BH@210' (20110106)	MC5JF1AA	UXX7998.D	01/10/11	12:00
02	MW-108BH@210' (20110106)	MC5JF1AC S	UXX8003.D	01/10/11	13:47
03	MW-108BH@210' (20110106)	MC5JF1AD D	UXX8004.D	01/10/11	14:09
04	TB-20110106	MC5JN1AA	UXX7999.D	01/10/11	12:21
05	CHECK SAMPLE	MC6XD1AC C	UXX7994.D	01/10/11	10:34
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON

Contract:

Lab Code: TACAN

Case No.:

SAS No.:

SDG No.: A1A070479

Lab File ID: BFB3928

BFB Injection Date: 11/14/10

Instrument ID: A3UX10

BFB Injection Time: 1617

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	48.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	95.0
175	5.0 - 9.0% of mass 174	6.7 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	92.9 (97.8)1
177	5.0 - 9.0% of mass 176	6.0 (6.5)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-A9IC	UXX6200	11/14/10	1917
02	VSTD020	100NG-A9IC	UXX6201	11/14/10	1938
03	VSTD010	50NG-A9IC	UXX6202	11/14/10	1959
04	VSTD005	25NG-A9IC	UXX6203	11/14/10	2021
05	VSTD002	10NG-A9IC	UXX6204	11/14/10	2042
06	VSTD001	5NG-A9IC	UXX6205	11/14/10	2103
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON

Contract:

Lab Code: TACAN

Case No.:

SAS No.:

SDG No.: A1A070479

Lab File ID: BFB3989

BFB Injection Date: 12/29/10

Instrument ID: A3UX10

BFB Injection Time: 0910

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 100.0% of mass 95	95.0
175	5.0 - 9.0% of mass 174	6.8 (7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	92.5 (97.4)1
177	5.0 - 9.0% of mass 176	6.2 (6.7)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-IC	UXX7801	12/29/10	0933
02	VSTD020	100NG-IC	UXX7802	12/29/10	0955
03	VSTD010	50NG-IC	UXX7803	12/29/10	1017
04	VSTD005	25NG-IC	UXX7804	12/29/10	1038
05	VSTD002	10NG-IC	UXX7805	12/29/10	1059
06	VSTD001	5NG-IC	UXX7806	12/29/10	1120
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON

Contract:

Lab Code: TACAN

Case No.:

SAS No.:

SDG No.: A1A070479

Lab File ID: BFB3997

BFB Injection Date: 01/10/11

Instrument ID: A3UX10

BFB Injection Time: 0925

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 100.0% of mass 95	91.7
175	5.0 - 9.0% of mass 174	6.7 (7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.0 (99.2)1
177	5.0 - 9.0% of mass 176	6.1 (6.7)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UXX7992	01/10/11	0951
02	VSTD010	50NG-A9CC	UXX7993	01/10/11	1013
03	MC6XDCHK	MC6XD1AC	UXX7994	01/10/11	1034
04	MC6XDBLK	MC6XD1AA	UXX7995	01/10/11	1056
05	MW-108BH@210	MC5JF1AA	UXX7998	01/10/11	1200
06	TB-20110106	MC5JN1AA	UXX7999	01/10/11	1221
07	MW-108BH@210	MC5JF1AC	UXX8003	01/10/11	1347
08	MW-108BH@210	MC5JF1AD	UXX8004	01/10/11	1409
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON

Contract:

Lab Code: TACAN

Case No.:

SAS No.:

SDG No.: A1A070479

Lab File ID (Standard): UXX7992

Date Analyzed: 01/10/11

Instrument ID: A3UX10

Time Analyzed: 0951

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(CBZ)		IS2(DCB)		IS3	
		AREA #	RT	AREA #	RT	AREA #	RT
=====	=====	=====	=====	=====	=====	=====	=====
12 HOUR STD		1084996	7.79	659942	10.04	1370072	5.11
=====	=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT		2169992	8.29	1319884	10.54	2740144	5.61
=====	=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT		542498	7.29	329971	9.54	685036	4.61
=====	=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE							
NO.							
=====	=====	=====	=====	=====	=====	=====	=====
01 MC6XDCHK		1040159	7.79	657706	10.04	1162967	5.11
02 MC6XDBLK		920947	7.79	551091	10.04	1257690	5.11
03 MW-108BH@210		1017162	7.79	604398	10.04	1285505	5.11
04 TB-20110106		934636	7.79	545961	10.04	1263374	5.11
05 MW-108BH@210		1145035	7.79	680241	10.04	1446106	5.12
06 MW-108BH@210		1035060	7.79	648080	10.04	1372102	5.11
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DCB) = 1,4-Dichlorobenzene-d4

IS3 = Fluorobenzene

UPPER LIMIT = +100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values with an asterisk.

SAMPLE DATA

TRW Automotive

Client Sample ID: MW-108BH@210'(20110106)

GC/MS Volatiles

Lot-Sample #...: A1A070479-001 Work Order #...: MC5JF1AA Matrix.....: WG
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	1.2	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	39	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108BH@210'(20110106)

GC/MS Volatiles

Lot-Sample #...: A1A070479-001 Work Order #...: MC5JF1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.1	1.0	ug/L
Trichlorofluoromethane	5.8	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	97		(75 - 121)	
1,2-Dichloroethane-d4	96		(63 - 129)	
Toluene-d8	87		(74 - 115)	
4-Bromofluorobenzene	91		(66 - 117)	

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7998.D
 Report Date: 10-Jan-2011 13:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7998.D
 Lab Smp Id: MC5JF1AA Client Smp ID: MW-108BH@210'(20110
 Inj Date : 10-JAN-2011 12:00
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info : MC5JF1AA,5ML/5ML
 Misc Info : P10110A,8260LLUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 a3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS					(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Fluorobenzene	96	5.114	5.113	(1.000)	1285505	50.0000		
* 2 Chlorobenzene-d5	117	7.788	7.787	(1.000)	1017162	50.0000		
* 3 1,4-Dichlorobenzene-d4	152	10.036	10.036	(1.000)	604398	50.0000		
\$ 4 Dibromofluoromethane	113	4.534	4.533	(0.887)	245343	48.3751	9.675	
\$ 5 1,2-Dichloroethane-d4	65	4.818	4.817	(0.942)	284210	47.8755	9.575	
\$ 6 Toluene-d8	98	6.475	6.474	(0.831)	962710	43.2644	8.653	
\$ 7 Bromofluorobenzene	95	8.900	8.900	(1.143)	354276	45.3498	9.070	
8 Dichlorodifluoromethane	85	1.493	1.492	(0.292)	19750	4.35926	0.8718	
9 Chloromethane	50	Compound Not Detected.						
10 Vinyl Chloride	62	Compound Not Detected.						
11 Bromomethane	94	Compound Not Detected.						
12 Chloroethane	64	Compound Not Detected.						
13 Trichlorofluoromethane	101	2.298	2.297	(0.449)	142713	28.8036	5.761	
15 Acrolein	56	Compound Not Detected.						
16 Acetone	43	2.735	2.735	(0.535)	33414	21.0359	4.207	
17 1,1-Dichloroethene	96	Compound Not Detected.						
18 Freon-113	151	2.747	2.735	(0.537)	4916	1.30041	0.2601	
19 Iodomethane	142	Compound Not Detected.						
20 Carbon Disulfide	76	Compound Not Detected.						
21 Methylene Chloride	84	Compound Not Detected.						

22 Acetonitrile	41	Compound Not Detected.
23 Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7998.D
 Report Date: 10-Jan-2011 13:19

Compounds	QUANT	SIG					CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73		Compound	Not	Detected.			
25 trans-1,2-Dichloroethene	96		Compound	Not	Detected.			
26 Hexane	86		Compound	Not	Detected.			
27 Vinyl acetate	43		Compound	Not	Detected.			
28 1,1-Dichloroethane	63		3.670	3.681	(0.718)	59860	5.98762	1.198
29 tert-Butyl Alcohol	59		Compound	Not	Detected.			
30 2-Butanone	43		Compound	Not	Detected.			
M 31 1,2-Dichloroethene (total)	96					13402	2.11922	0.4238
32 cis-1,2-dichloroethene	96		4.155	4.155	(0.813)	13402	2.11922	0.4238
33 2,2-Dichloropropane	77		Compound	Not	Detected.			
34 Bromochloromethane	128		Compound	Not	Detected.			
35 Chloroform	83		4.416	4.403	(0.863)	12116	1.28005	0.2560
36 Tetrahydrofuran	42		Compound	Not	Detected.			
37 1,1,1-Trichloroethane	97		Compound	Not	Detected.			
38 1,1-Dichloropropene	75		Compound	Not	Detected.			
39 Carbon Tetrachloride	117		Compound	Not	Detected.			
40 1,2-Dichloroethane	62		Compound	Not	Detected.			
41 Benzene	78		Compound	Not	Detected.			
42 Trichloroethene	130		5.433	5.433	(1.062)	33468	5.51048	1.102
43 1,2-Dichloropropane	63		Compound	Not	Detected.			
44 1,4-Dioxane	88		Compound	Not	Detected.			
45 Dibromomethane	93		Compound	Not	Detected.			
46 Bromodichloromethane	83		Compound	Not	Detected.			
47 2-Chloroethyl vinyl ether	63		Compound	Not	Detected.			
48 cis-1,3-Dichloropropene	75		Compound	Not	Detected.			
49 4-Methyl-2-pentanone	43		Compound	Not	Detected.			
50 Toluene	91		6.534	6.533	(0.839)	30454	1.15438	0.2309
51 trans-1,3-Dichloropropene	75		Compound	Not	Detected.			
52 Ethyl Methacrylate	69		Compound	Not	Detected.			
53 1,1,2-Trichloroethane	97		Compound	Not	Detected.			
54 1,3-Dichloropropane	76		Compound	Not	Detected.			
55 Tetrachloroethene	164		7.043	7.042	(0.904)	13957	2.59175	0.5184
56 2-Hexanone	43		Compound	Not	Detected.			
57 Dibromochloromethane	129		Compound	Not	Detected.			
58 1,2-Dibromoethane	107		Compound	Not	Detected.			
59 Chlorobenzene	112		Compound	Not	Detected.			
60 1,1,1,2-Tetrachloroethane	131		Compound	Not	Detected.			
61 Ethylbenzene	106		Compound	Not	Detected.			
62 m + p-Xylene	106		Compound	Not	Detected.			
M 63 Xylenes (total)	106		Compound	Not	Detected.			
64 Xylene-o	106		Compound	Not	Detected.			
65 Styrene	104		Compound	Not	Detected.			
66 Bromoform	173		Compound	Not	Detected.			
67 Isopropylbenzene	105		Compound	Not	Detected.			
68 1,1,2,2-Tetrachloroethane	83		Compound	Not	Detected.			
69 1,4-Dichloro-2-butene	53		Compound	Not	Detected.			
70 1,2,3-Trichloropropane	110		Compound	Not	Detected.			
71 Bromobenzene	156		Compound	Not	Detected.			
72 n-Propylbenzene	120		Compound	Not	Detected.			
73 2-Chlorotoluene	126		Compound	Not	Detected.			
74 1,3,5-Trimethylbenzene	105		Compound	Not	Detected.			
75 4-Chlorotoluene	126		Compound	Not	Detected.			

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7998.D
 Report Date: 10-Jan-2011 13:19

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
78 sec-Butylbenzene	105	Compound	Not	Detected.				
79 4-Isopropyltoluene	119	Compound	Not	Detected.				
80 1,3-Dichlorobenzene	146	Compound	Not	Detected.				
81 1,4-Dichlorobenzene	146	Compound	Not	Detected.				
82 n-Butylbenzene	91	Compound	Not	Detected.				
83 1,2-Dichlorobenzene	146	Compound	Not	Detected.				
84 1,2-Dibromo-3-chloropropane	157	Compound	Not	Detected.				
85 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.				
86 Hexachlorobutadiene	225	Compound	Not	Detected.				
87 Naphthalene	128	Compound	Not	Detected.				
88 1,2,3-Trichlorobenzene	180	Compound	Not	Detected.				
14 Dichlorofluoromethane	67	2.239	2.238	(0.438)	1862998		197.460	39.492
89 Ethyl Ether	59	Compound	Not	Detected.				
91 3-Chloropropene	76	Compound	Not	Detected.				
92 Isopropyl Ether	87	Compound	Not	Detected.				
93 2-Chloro-1,3-butadiene	53	Compound	Not	Detected.				
94 Propionitrile	54	Compound	Not	Detected.				
95 Ethyl Acetate	43	4.203	4.190	(0.822)	29451		6.98313	1.397
96 Methacrylonitrile	41	Compound	Not	Detected.				
97 Isobutanol	41	Compound	Not	Detected.				
99 n-Butanol	56	Compound	Not	Detected.				
100 Methyl Methacrylate	41	Compound	Not	Detected.				
101 2-Nitropropane	41	Compound	Not	Detected.				
103 Cyclohexanone	55	Compound	Not	Detected.				
98 Cyclohexane	56	Compound	Not	Detected.				
143 Methyl Acetate	43	Compound	Not	Detected.				
144 Methylcyclohexane	83	Compound	Not	Detected.				
141 1,3,5-Trichlorobenzene	180	Compound	Not	Detected.				
146 2-Methylnaphthalene	142	Compound	Not	Detected.				
149 Vinyl Acetate-86	86	Compound	Not	Detected.				
153 t-Butyl ethyl ether	59	Compound	Not	Detected.				
154 t-Amyl methyl ether	73	Compound	Not	Detected.				
155 1,2,3-Trimethylbenzene	105	Compound	Not	Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7998.D
 Report Date: 10-Jan-2011 13:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i	Calibration Date: 10-JAN-2011
Lab File ID: UXX7998.D	Calibration Time: 09:51
Lab Smp Id: MC5JF1AA	Client Smp ID: MW-108BH@210'(20110
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: 1904	
Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m	
Misc Info: P10110A,8260LLUX10,,1904	

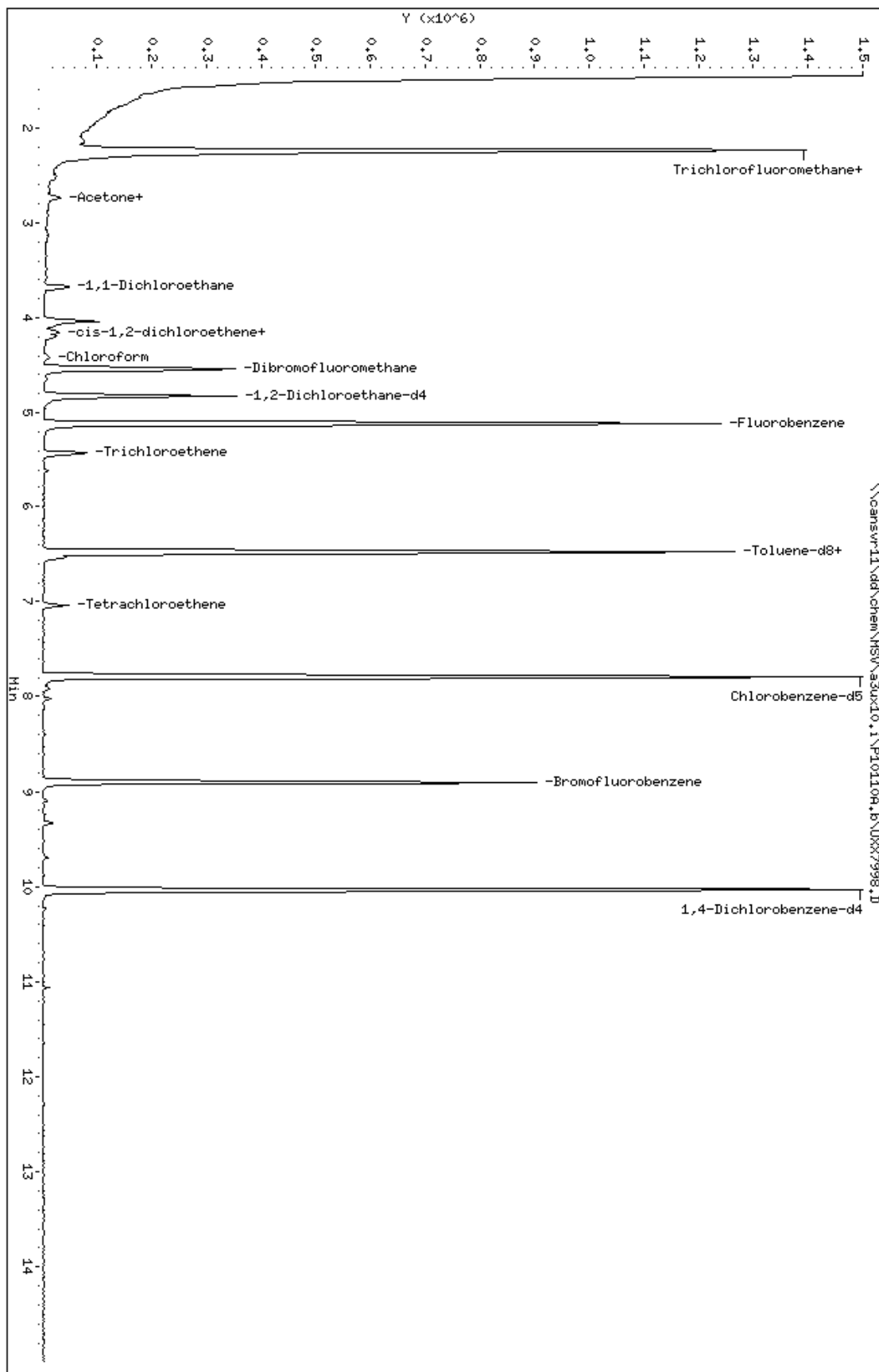
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1285505	-6.17
2 Chlorobenzene-d5	1084996	542498	2169992	1017162	-6.25
3 1,4-Dichlorobenze	659942	329971	1319884	604398	-8.42

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.01
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101106.b\UX7998.D
 Date : 10-JAN-2011 12:00
 Client ID: MW-108BH210'(20110
 Sample Info: MCSJF190,SHL/SHL
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

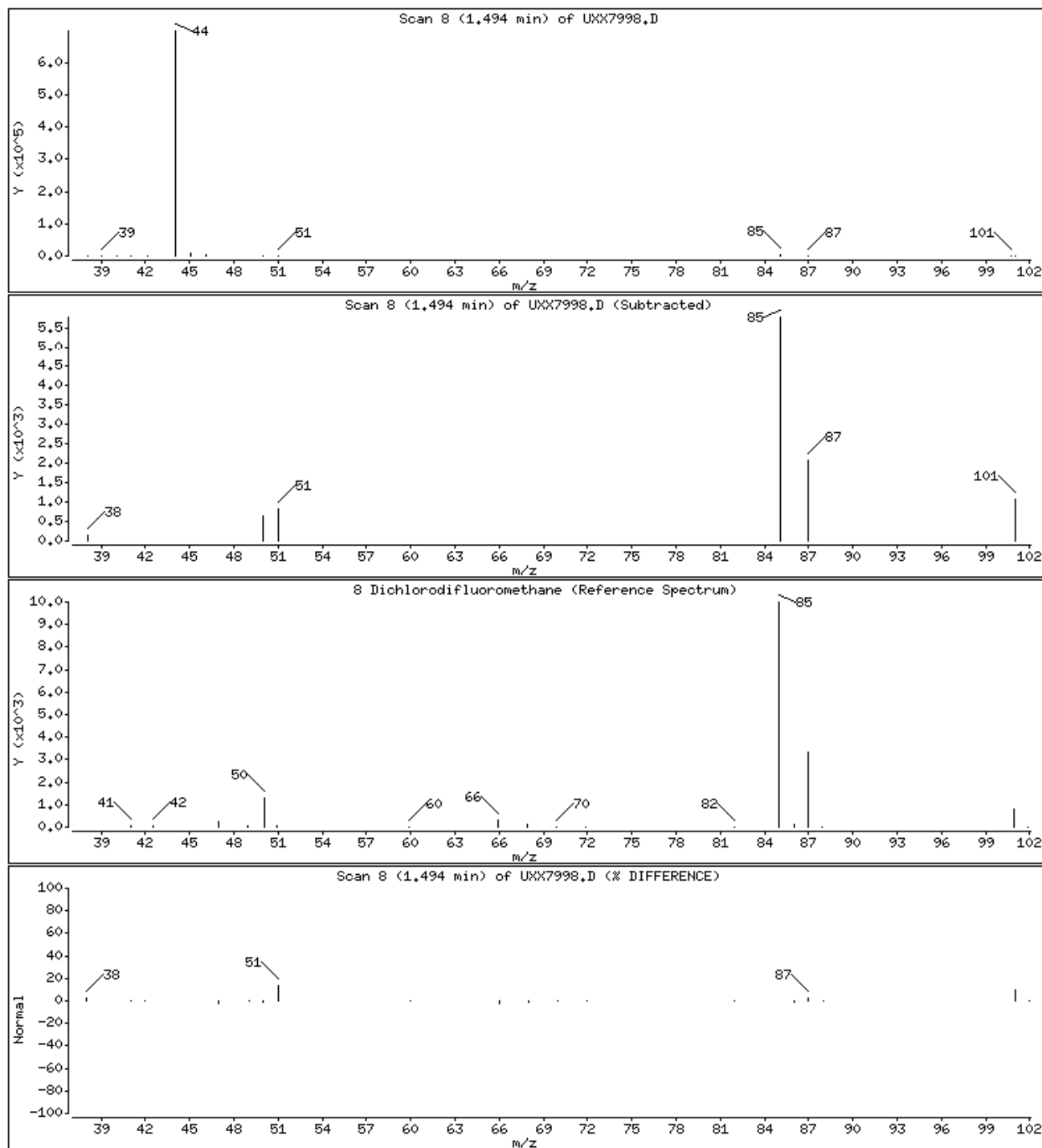
Operator: 1904

Column phase: DB624

Column diameter: 0.18

8 Dichlorodifluoromethane

Concentration: 0.8718 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

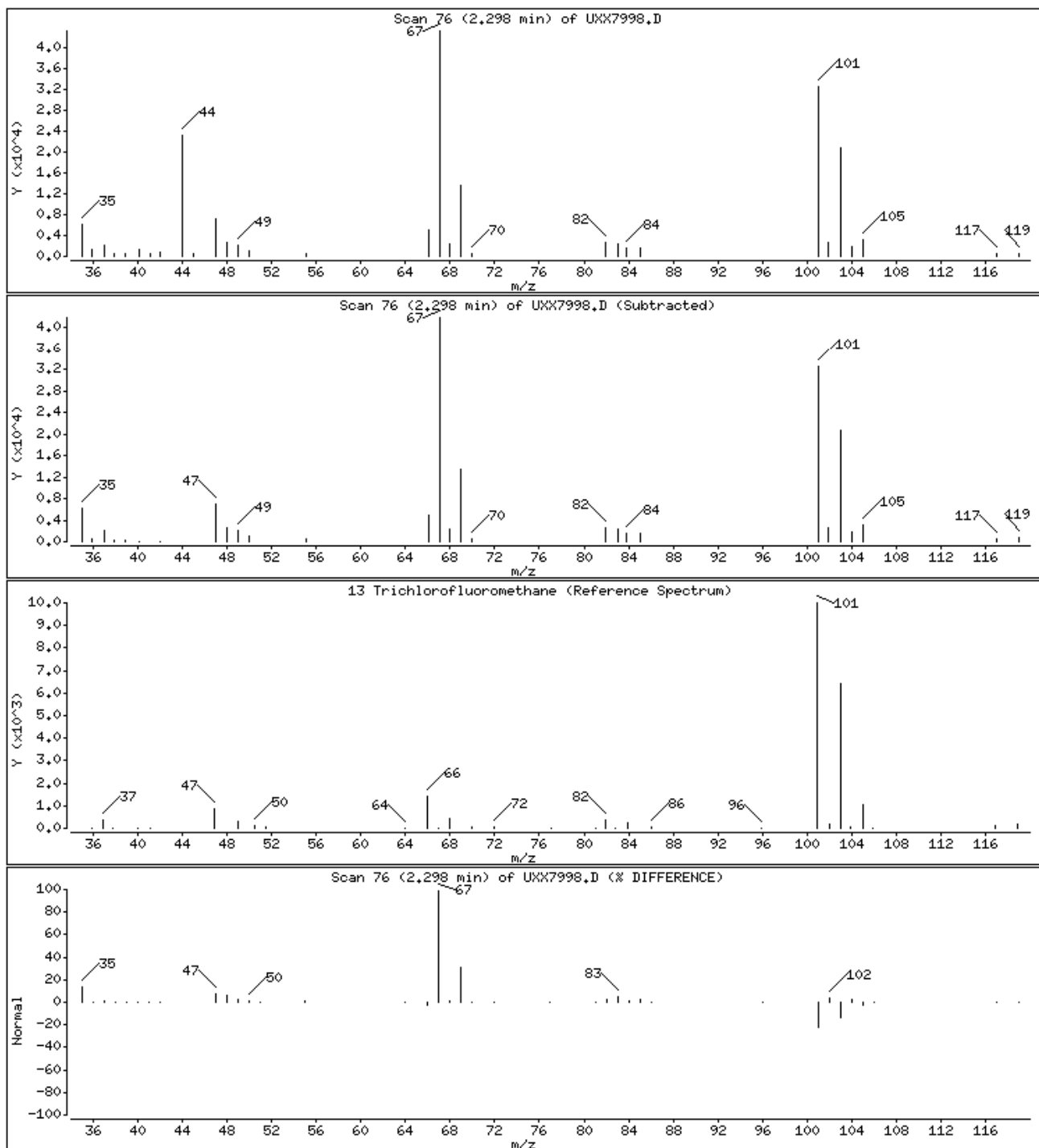
Operator: 1904

Column phase: DB624

Column diameter: 0.18

13 Trichlorofluoromethane

Concentration: 5.761 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

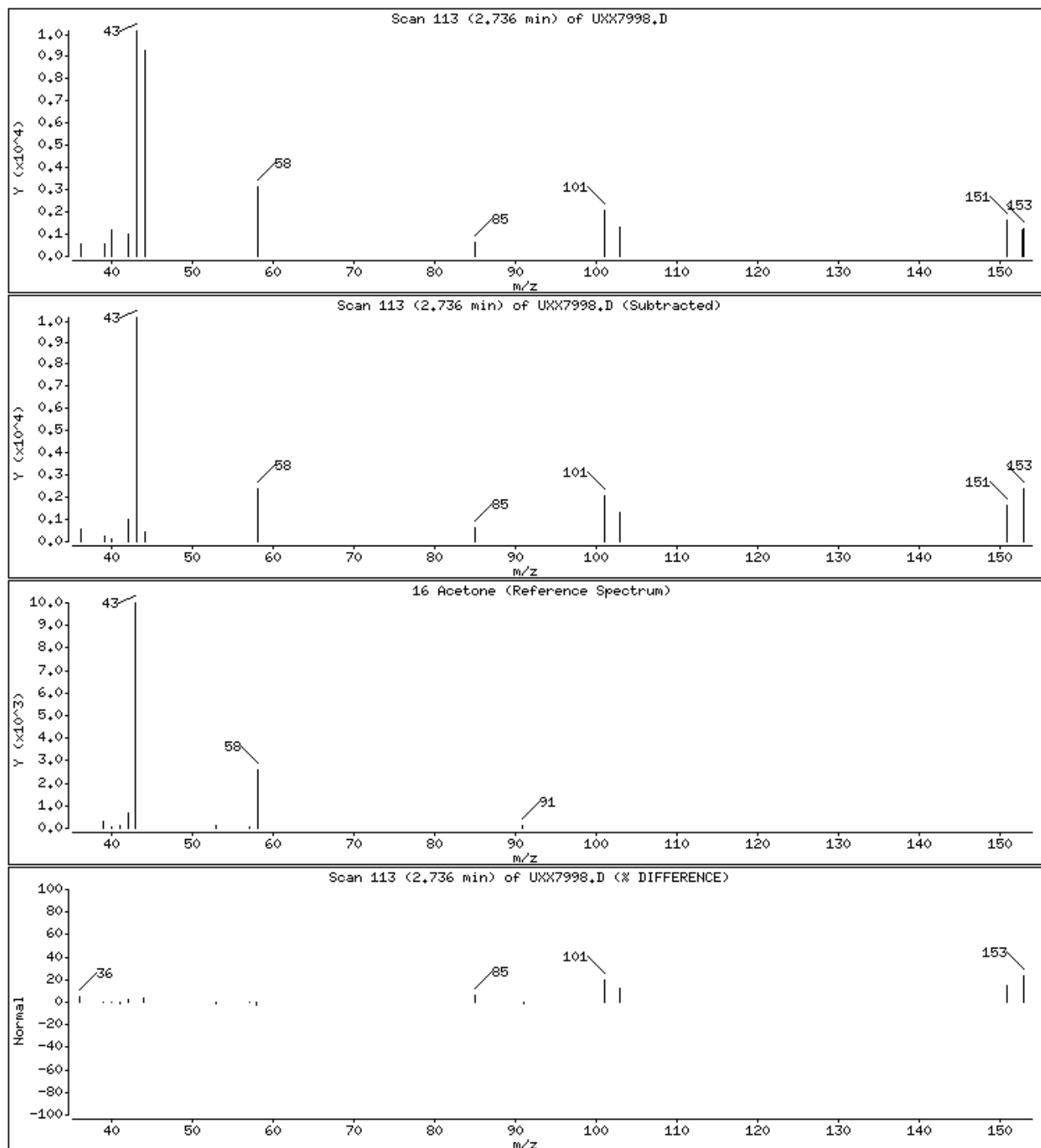
Operator: 1904

Column phase: DB624

Column diameter: 0.18

16 Acetone

Concentration: 4.207 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

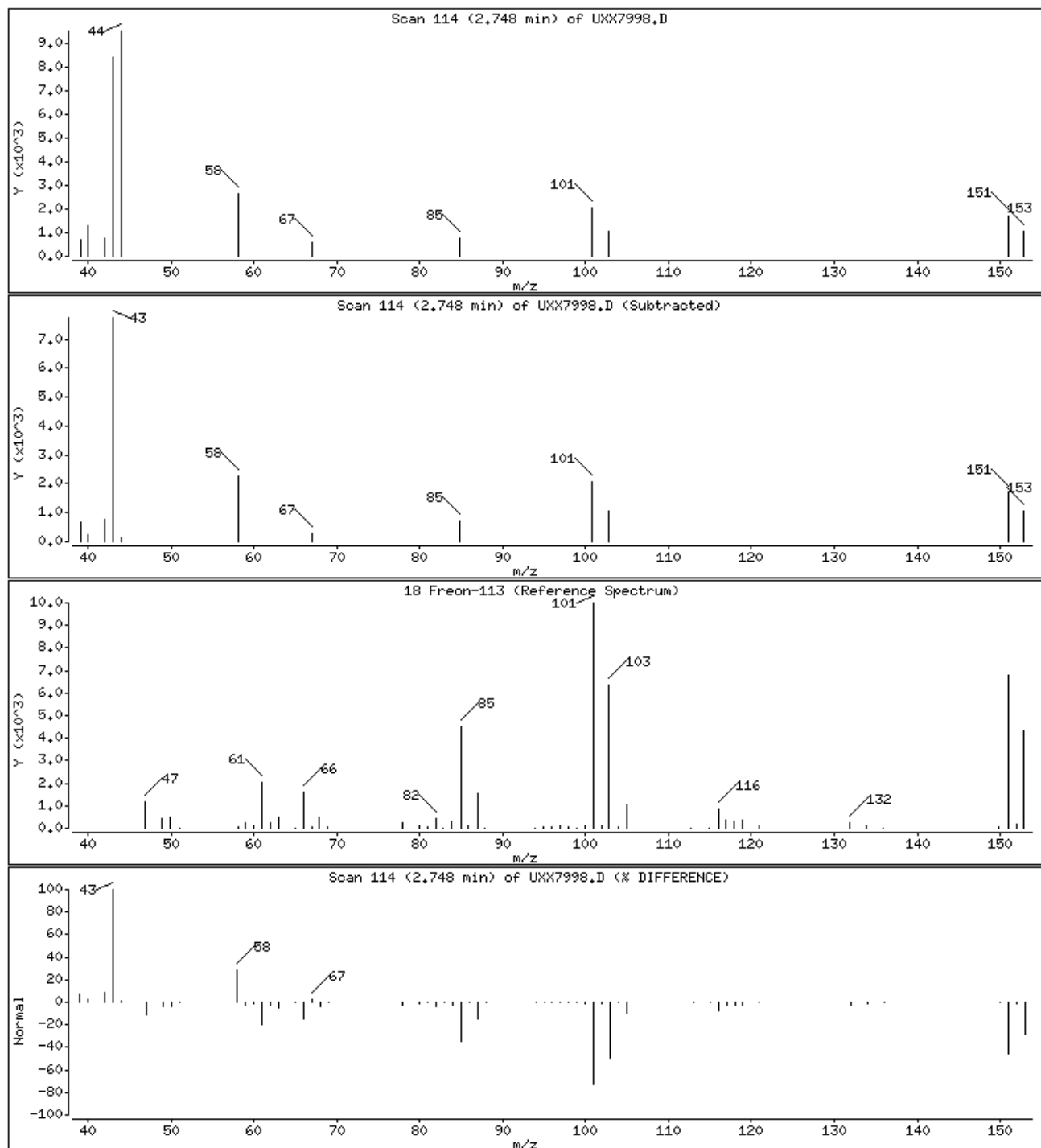
Operator: 1904

Column phase: DB624

Column diameter: 0.18

18 Freon-113

Concentration: 0.2601 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH0210' (20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

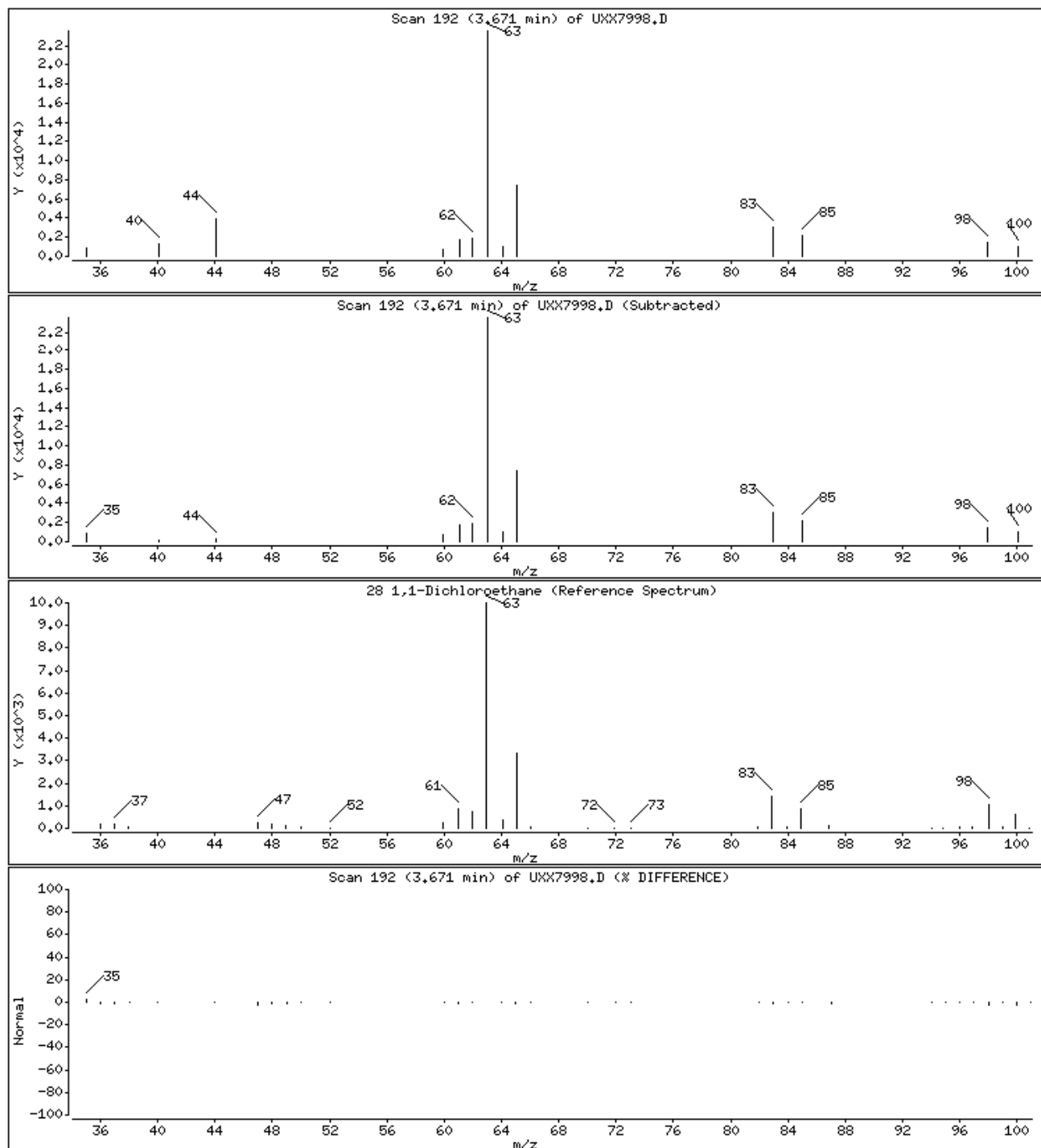
Operator: 1904

Column phase: DB624

Column diameter: 0.18

28 1,1-Dichloroethane

Concentration: 1.198 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

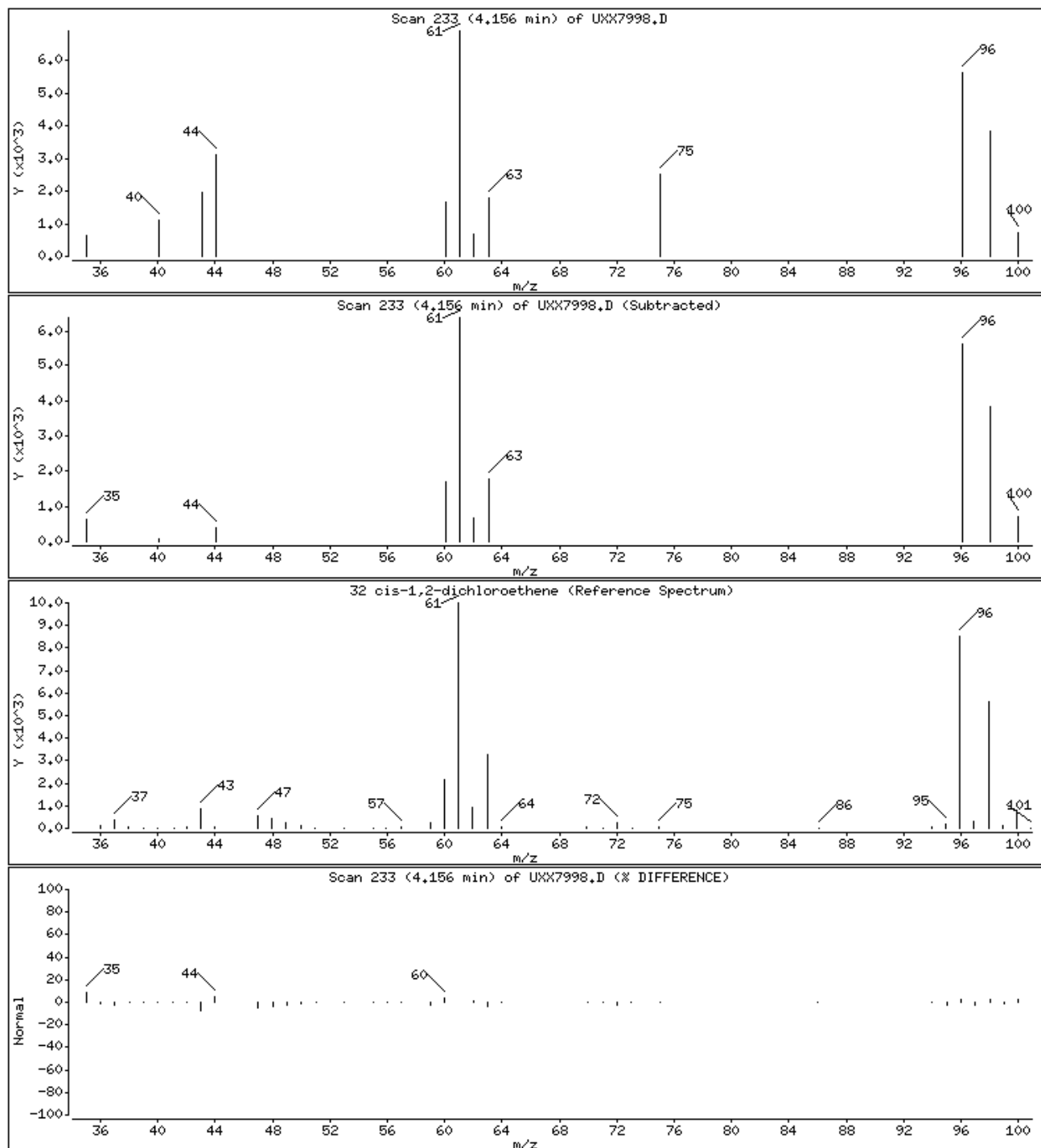
Operator: 1904

Column phase: DB624

Column diameter: 0.18

32 cis-1,2-dichloroethene

Concentration: 0.4238 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

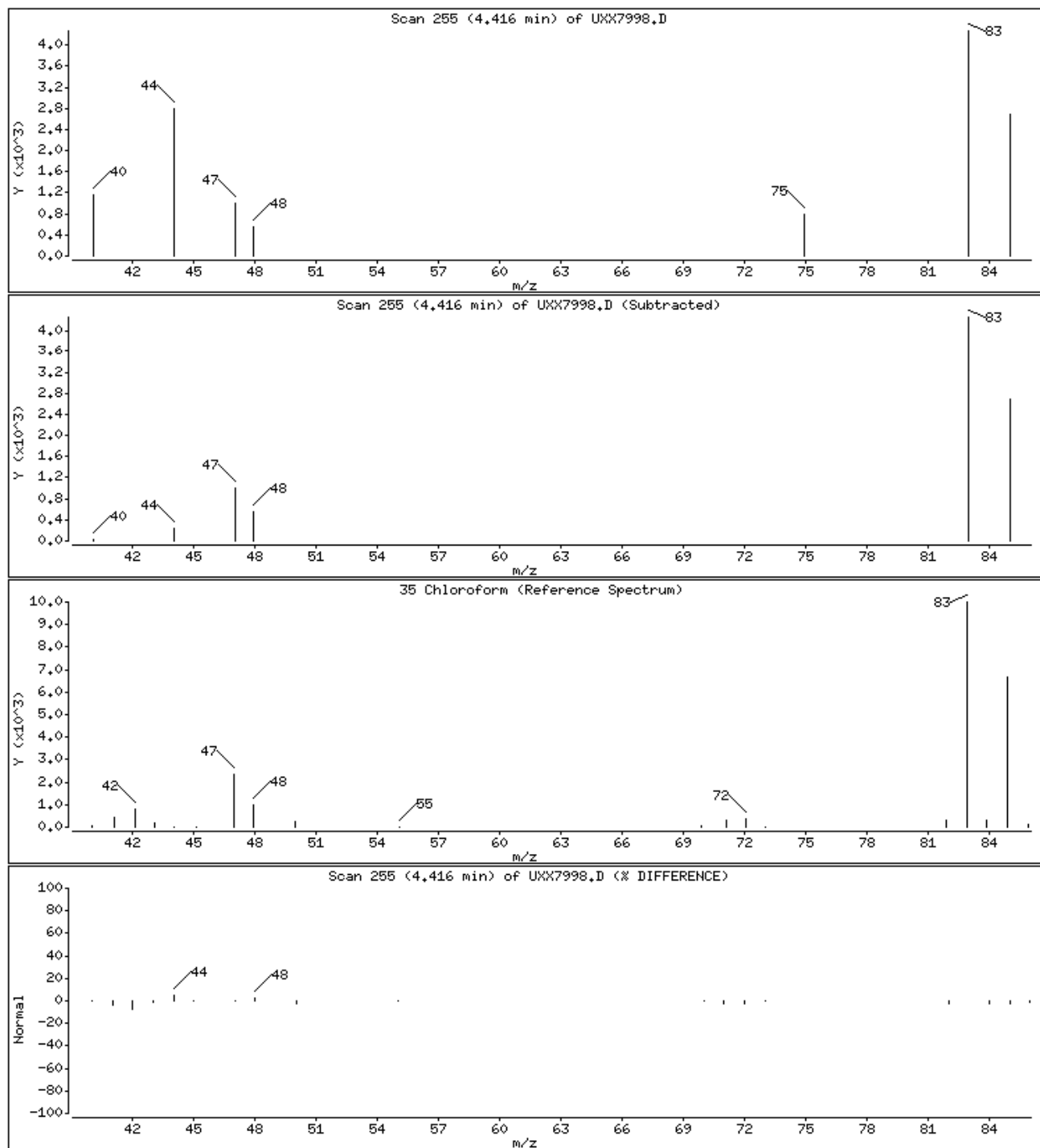
Operator: 1904

Column phase: DB624

Column diameter: 0.18

35 Chloroform

Concentration: 0.2560 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

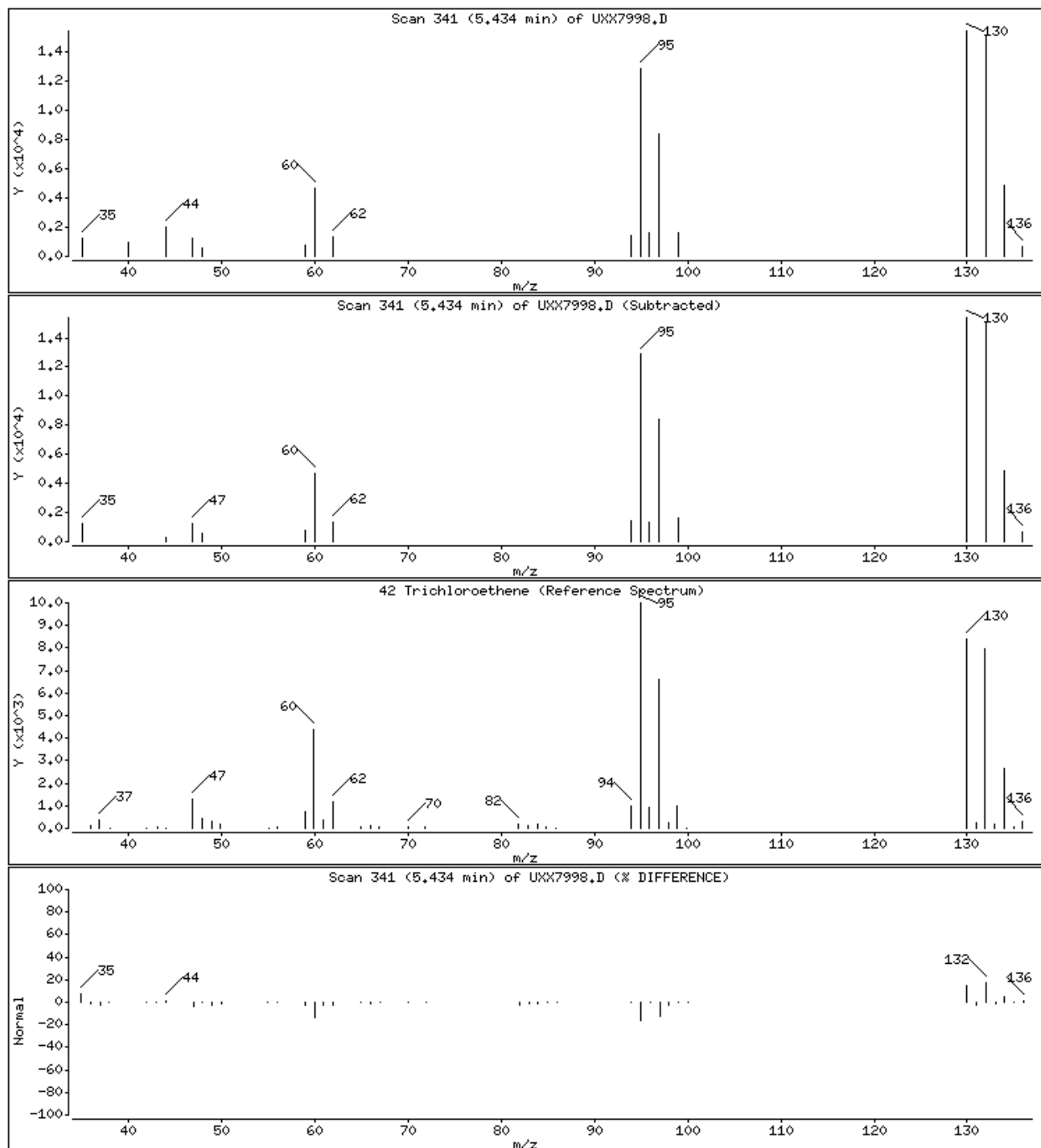
Operator: 1904

Column phase: DB624

Column diameter: 0.18

42 Trichloroethene

Concentration: 1.102 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

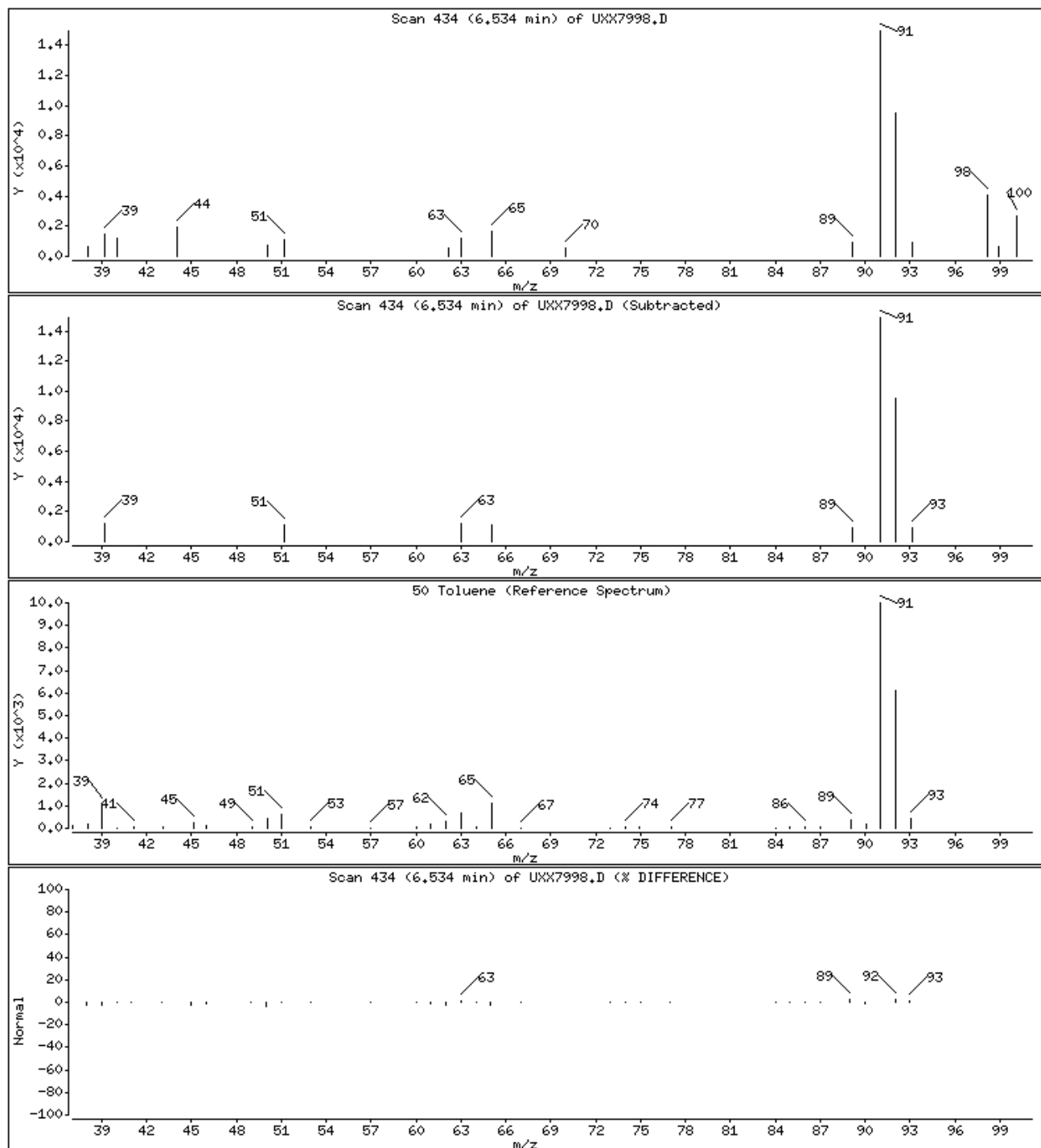
Operator: 1904

Column phase: DB624

Column diameter: 0.18

50 Toluene

Concentration: 0.2309 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

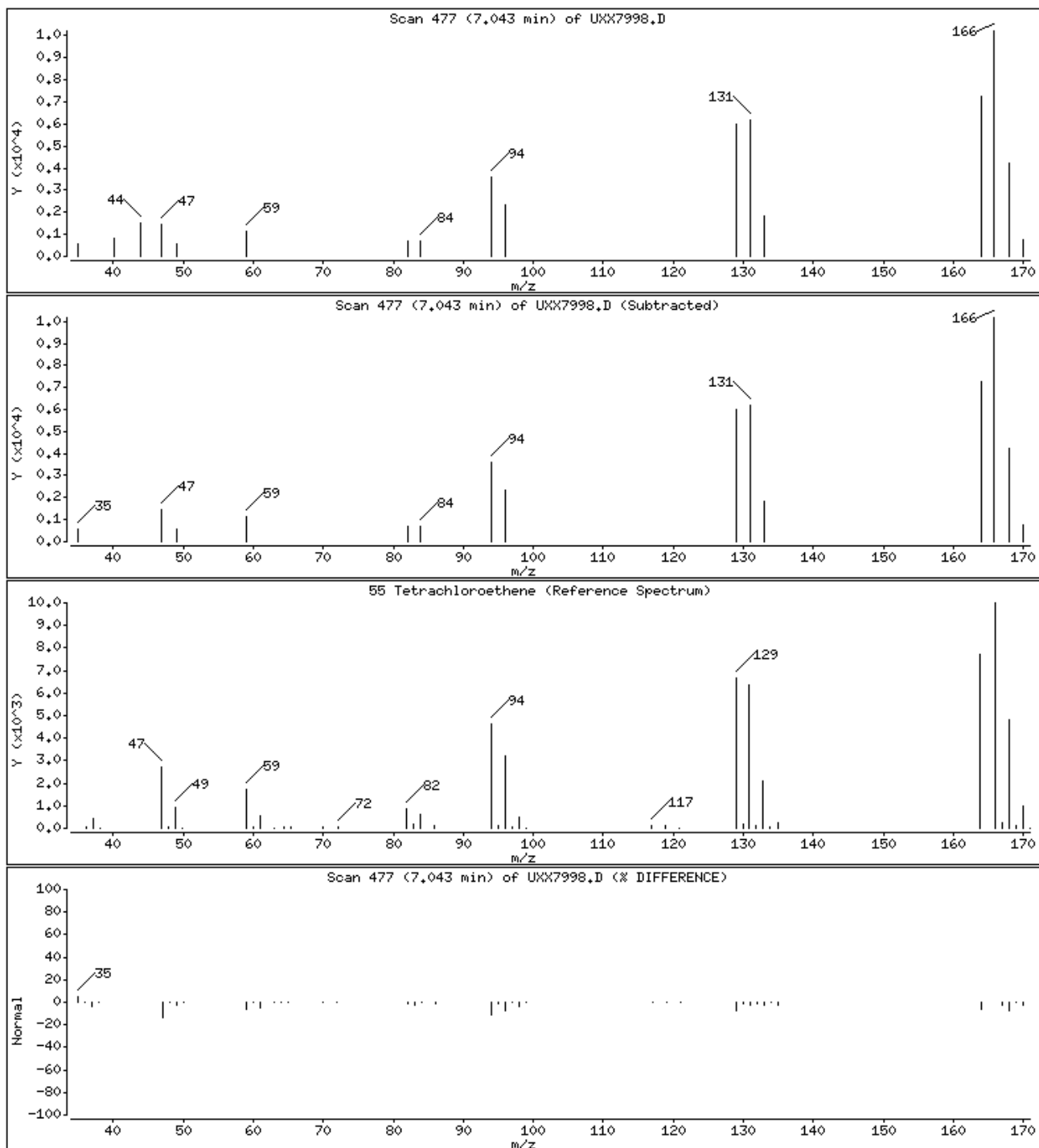
Operator: 1904

Column phase: DB624

Column diameter: 0.18

55 Tetrachloroethene

Concentration: 0.5184 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

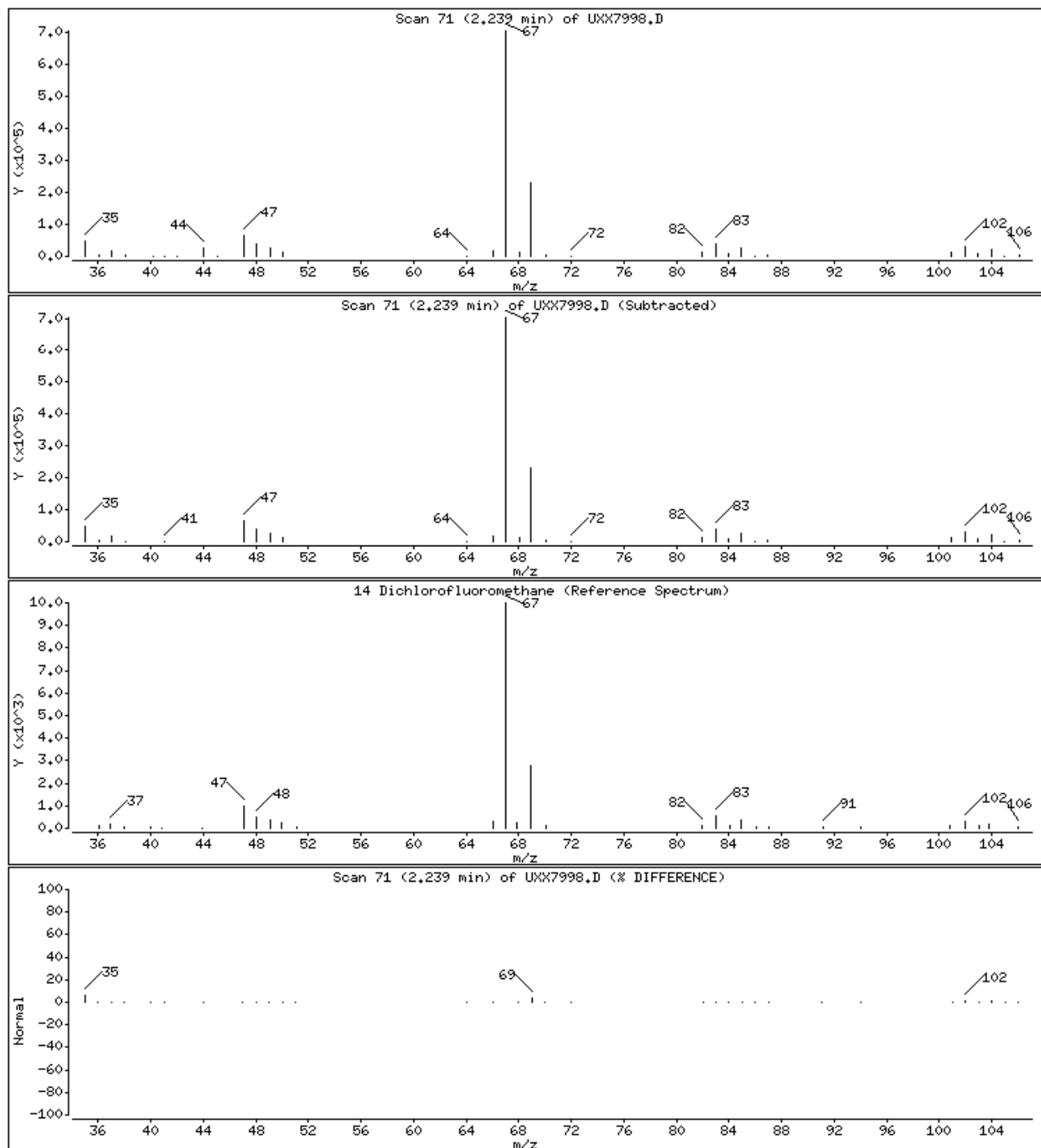
Operator: 1904

Column phase: DB624

Column diameter: 0.18

14 Dichlorofluoromethane

Concentration: 39.492 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7998.D

Date : 10-JAN-2011 12:00

Client ID: MW-108BH02107(20110

Instrument: a3ux10.i

Sample Info: MC5JF1AA,5ML/5ML

Purge Volume: 5.0

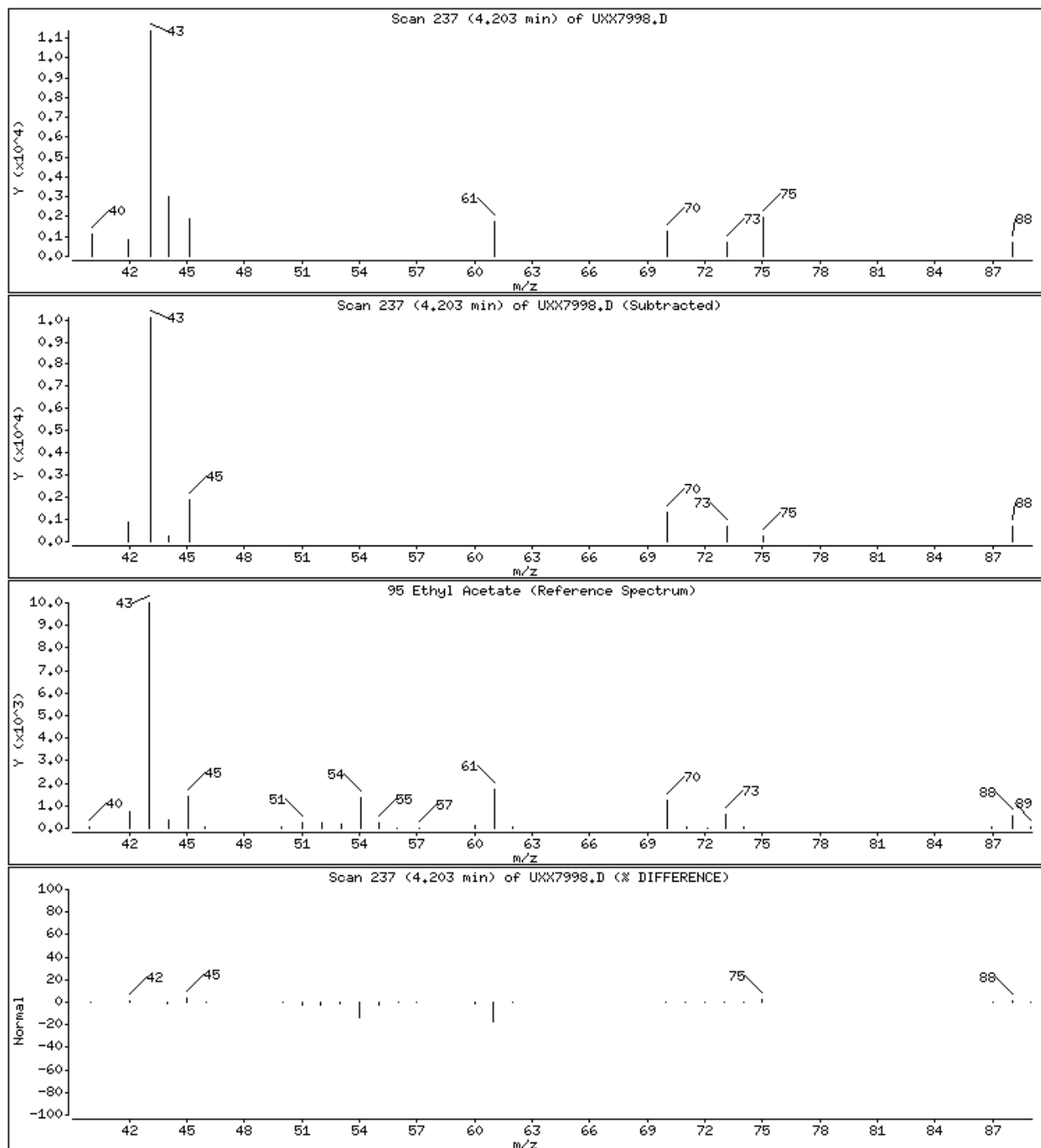
Operator: 1904

Column phase: DB624

Column diameter: 0.18

95 Ethyl Acetate

Concentration: 1.397 ug/L



TRW Automotive

Client Sample ID: TB-20110106

GC/MS Volatiles

Lot-Sample #...: A1A070479-002 Work Order #...: MC5JN1AA Matrix.....: WQ
 Date Sampled...: 01/06/11 Date Received..: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date..: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20110106

GC/MS Volatiles

Lot-Sample #...: A1A070479-002 Work Order #...: MC5JN1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	100	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7999.D
 Report Date: 10-Jan-2011 13:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7999.D
 Lab Smp Id: MC5JN1AA Client Smp ID: TB-20110106
 Inj Date : 10-JAN-2011 12:21
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info : MC5JN1AA,5ML/5ML
 Misc Info : P10110A,8260LLUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 a3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Fluorobenzene	96	5.113	5.113	(1.000)	1263374	50.0000			
* 2 Chlorobenzene-d5	117	7.787	7.787	(1.000)	934636	50.0000			
* 3 1,4-Dichlorobenzene-d4	152	10.036	10.036	(1.000)	545961	50.0000			
\$ 4 Dibromofluoromethane	113	4.533	4.533	(0.887)	249007	49.9576		9.992	
\$ 5 1,2-Dichloroethane-d4	65	4.817	4.817	(0.942)	290045	49.7143		9.943	
\$ 6 Toluene-d8	98	6.474	6.474	(0.831)	941465	46.0455		9.209	
\$ 7 Bromofluorobenzene	95	8.900	8.900	(1.143)	314113	43.7590		8.752	
8 Dichlorodifluoromethane	85	Compound Not Detected.							
9 Chloromethane	50	Compound Not Detected.							
10 Vinyl Chloride	62	Compound Not Detected.							
11 Bromomethane	94	Compound Not Detected.							
12 Chloroethane	64	Compound Not Detected.							
13 Trichlorofluoromethane	101	Compound Not Detected.							
15 Acrolein	56	Compound Not Detected.							
16 Acetone	43	2.735	2.735	(0.535)	27284	17.4776		3.496	
17 1,1-Dichloroethene	96	Compound Not Detected.							
18 Freon-113	151	Compound Not Detected.							
19 Iodomethane	142	Compound Not Detected.							
20 Carbon Disulfide	76	Compound Not Detected.							
21 Methylene Chloride	84	3.101	3.102	(0.607)	6798	1.05260		0.2105	

22 Acetonitrile	41	Compound Not Detected.
23 Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7999.D
 Report Date: 10-Jan-2011 13:19

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
24 Methyl tert-butyl ether	73		Compound	Not	Detected.			
25 trans-1,2-Dichloroethene	96		Compound	Not	Detected.			
26 Hexane	86		Compound	Not	Detected.			
27 Vinyl acetate	43		Compound	Not	Detected.			
28 1,1-Dichloroethane	63		Compound	Not	Detected.			
29 tert-Butyl Alcohol	59		Compound	Not	Detected.			
30 2-Butanone	43		Compound	Not	Detected.			
M 31 1,2-Dichloroethene (total)	96		Compound	Not	Detected.			
32 cis-1,2-dichloroethene	96		Compound	Not	Detected.			
33 2,2-Dichloropropane	77		Compound	Not	Detected.			
34 Bromochloromethane	128		Compound	Not	Detected.			
35 Chloroform	83		Compound	Not	Detected.			
36 Tetrahydrofuran	42		Compound	Not	Detected.			
37 1,1,1-Trichloroethane	97		Compound	Not	Detected.			
38 1,1-Dichloropropene	75		Compound	Not	Detected.			
39 Carbon Tetrachloride	117		Compound	Not	Detected.			
40 1,2-Dichloroethane	62		Compound	Not	Detected.			
41 Benzene	78		Compound	Not	Detected.			
42 Trichloroethene	130		Compound	Not	Detected.			
43 1,2-Dichloropropane	63		Compound	Not	Detected.			
44 1,4-Dioxane	88		Compound	Not	Detected.			
45 Dibromomethane	93		Compound	Not	Detected.			
46 Bromodichloromethane	83		Compound	Not	Detected.			
47 2-Chloroethyl vinyl ether	63		Compound	Not	Detected.			
48 cis-1,3-Dichloropropene	75		Compound	Not	Detected.			
49 4-Methyl-2-pentanone	43		Compound	Not	Detected.			
50 Toluene	91		Compound	Not	Detected.			
51 trans-1,3-Dichloropropene	75		Compound	Not	Detected.			
52 Ethyl Methacrylate	69		Compound	Not	Detected.			
53 1,1,2-Trichloroethane	97		Compound	Not	Detected.			
54 1,3-Dichloropropane	76		Compound	Not	Detected.			
55 Tetrachloroethene	164		Compound	Not	Detected.			
56 2-Hexanone	43		Compound	Not	Detected.			
57 Dibromochloromethane	129		Compound	Not	Detected.			
58 1,2-Dibromoethane	107		Compound	Not	Detected.			
59 Chlorobenzene	112		Compound	Not	Detected.			
60 1,1,1,2-Tetrachloroethane	131		Compound	Not	Detected.			
61 Ethylbenzene	106		Compound	Not	Detected.			
62 m + p-Xylene	106		Compound	Not	Detected.			
M 63 Xylenes (total)	106		Compound	Not	Detected.			
64 Xylene-o	106		Compound	Not	Detected.			
65 Styrene	104		Compound	Not	Detected.			
66 Bromoform	173		Compound	Not	Detected.			
67 Isopropylbenzene	105		Compound	Not	Detected.			
68 1,1,2,2-Tetrachloroethane	83		Compound	Not	Detected.			
69 1,4-Dichloro-2-butene	53		Compound	Not	Detected.			
70 1,2,3-Trichloropropane	110		Compound	Not	Detected.			
71 Bromobenzene	156		Compound	Not	Detected.			
72 n-Propylbenzene	120		Compound	Not	Detected.			
73 2-Chlorotoluene	126		Compound	Not	Detected.			
74 1,3,5-Trimethylbenzene	105		Compound	Not	Detected.			
75 4-Chlorotoluene	126		Compound	Not	Detected.			

76 tert-Butylbenzene	119	Compound Not Detected.
77 1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7999.D
 Report Date: 10-Jan-2011 13:19

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	MASS					(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
78 sec-Butylbenzene	105	Compound	Not	Detected.				
79 4-Isopropyltoluene	119	Compound	Not	Detected.				
80 1,3-Dichlorobenzene	146	Compound	Not	Detected.				
81 1,4-Dichlorobenzene	146	Compound	Not	Detected.				
82 n-Butylbenzene	91	Compound	Not	Detected.				
83 1,2-Dichlorobenzene	146	Compound	Not	Detected.				
84 1,2-Dibromo-3-chloropropane	157	Compound	Not	Detected.				
85 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.				
86 Hexachlorobutadiene	225	Compound	Not	Detected.				
87 Naphthalene	128	Compound	Not	Detected.				
88 1,2,3-Trichlorobenzene	180	Compound	Not	Detected.				
14 Dichlorofluoromethane	67	Compound	Not	Detected.				
89 Ethyl Ether	59	Compound	Not	Detected.				
91 3-Chloropropene	76	Compound	Not	Detected.				
92 Isopropyl Ether	87	Compound	Not	Detected.				
93 2-Chloro-1,3-butadiene	53	Compound	Not	Detected.				
94 Propionitrile	54	Compound	Not	Detected.				
95 Ethyl Acetate	43	Compound	Not	Detected.				
96 Methacrylonitrile	41	Compound	Not	Detected.				
97 Isobutanol	41	Compound	Not	Detected.				
99 n-Butanol	56	Compound	Not	Detected.				
100 Methyl Methacrylate	41	Compound	Not	Detected.				
101 2-Nitropropane	41	Compound	Not	Detected.				
103 Cyclohexanone	55	Compound	Not	Detected.				
98 Cyclohexane	56	Compound	Not	Detected.				
143 Methyl Acetate	43	Compound	Not	Detected.				
144 Methylcyclohexane	83	Compound	Not	Detected.				
141 1,3,5-Trichlorobenzene	180	Compound	Not	Detected.				
146 2-Methylnaphthalene	142	Compound	Not	Detected.				
149 Vinyl Acetate-86	86	Compound	Not	Detected.				
153 t-Butyl ethyl ether	59	Compound	Not	Detected.				
154 t-Amyl methyl ether	73	Compound	Not	Detected.				
155 1,2,3-Trimethylbenzene	105	Compound	Not	Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7999.D
 Report Date: 10-Jan-2011 13:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i	Calibration Date: 10-JAN-2011
Lab File ID: UXX7999.D	Calibration Time: 09:51
Lab Smp Id: MC5JN1AA	Client Smp ID: TB-20110106
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: 1904	
Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m	
Misc Info: P10110A,8260LLUX10,,1904	

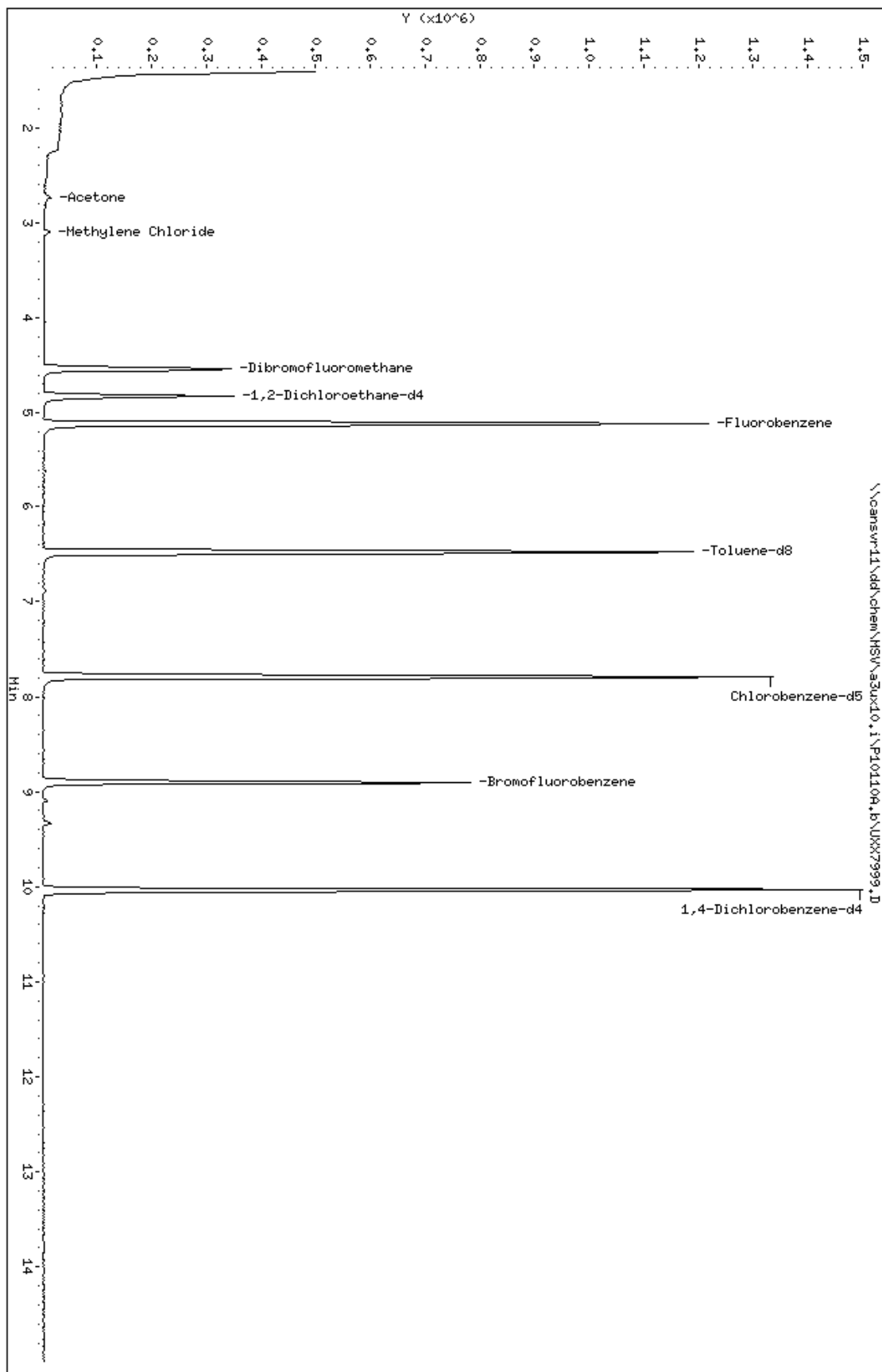
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1263374	-7.79
2 Chlorobenzene-d5	1084996	542498	2169992	934636	-13.86
3 1,4-Dichlorobenze	659942	329971	1319884	545961	-17.27

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101106.b\UX7999.D
 Date : 10-JAN-2011 12:21
 Client ID: TB-20110106
 Sample Info: MCSJH106,SHL/SHL
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7999.D

Date : 10-JAN-2011 12:21

Client ID: TB-20110106

Instrument: a3ux10.i

Sample Info: MC5JH1AA,5ML/5ML

Purge Volume: 5.0

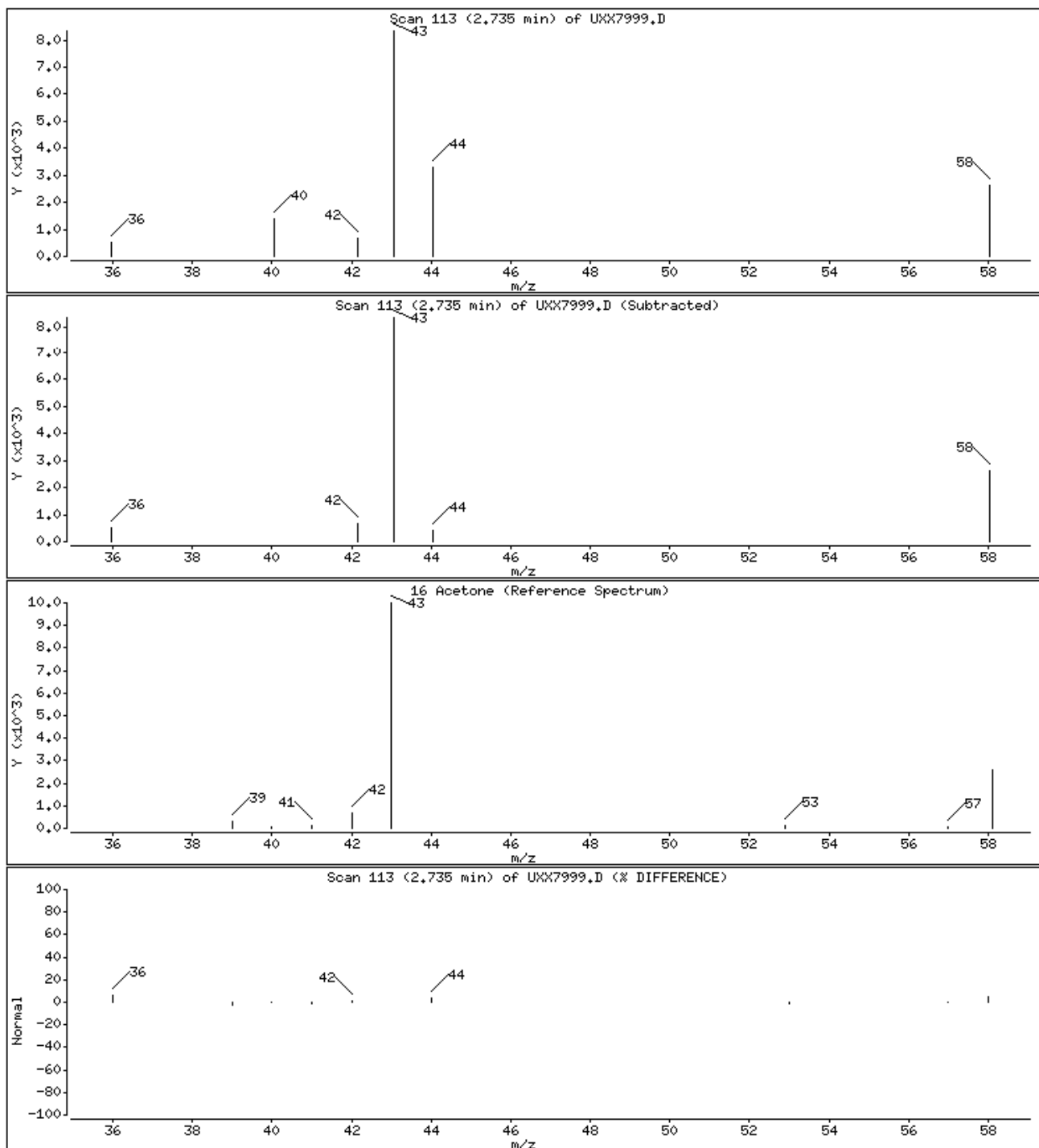
Operator: 1904

Column phase: DB624

Column diameter: 0.18

16 Acetone

Concentration: 3.496 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7999.D

Date : 10-JAN-2011 12:21

Client ID: TB-20110106

Instrument: a3ux10.i

Sample Info: MC5JN1AA,5ML/5ML

Purge Volume: 5.0

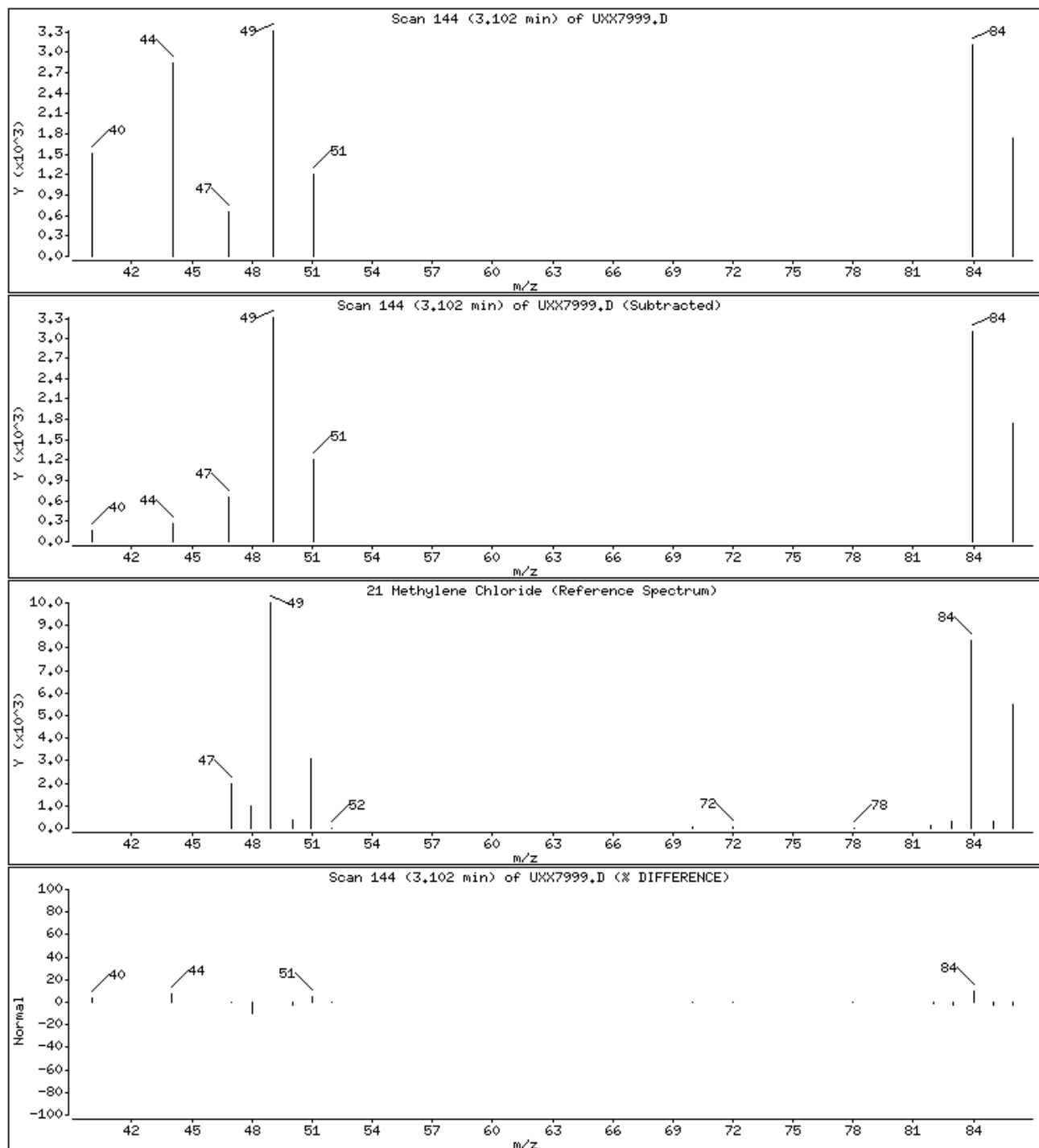
Operator: 1904

Column phase: DB624

Column diameter: 0.18

21 Methylene Chloride

Concentration: 0.2105 ug/L



STANDARD DATA

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Start Cal Date: 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Last Cal Level: 4
 Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
23-NOV-2010 23:13	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6626.D
14-NOV-2010 21:03	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6205.D
29-DEC-2010 11:20	2-8260	\\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7806.D
Cal Level: 2 , Cal Amount: 10.00000		
23-NOV-2010 22:51	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6625.D
14-NOV-2010 20:42	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6204.D
29-DEC-2010 10:59	2-8260	\\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7805.D
Cal Level: 3 , Cal Amount: 25.00000		
23-NOV-2010 22:30	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6624.D
14-NOV-2010 20:21	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6203.D
29-DEC-2010 10:38	2-8260	\\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7804.D
Cal Level: 4 , Cal Amount: 50.00000		
23-NOV-2010 22:09	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6623.D
14-NOV-2010 19:59	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6202.D
29-DEC-2010 10:17	2-8260	\\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7803.D
Cal Level: 5 , Cal Amount: 100.00000		
23-NOV-2010 21:47	MISC	\\cansvr11\dd\chem\MSV\a3ux10.i\P01123B-IC.b\UXX6622.D
14-NOV-2010 19:38	3-IX	\\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6201.D

29-DEC-2010 09:55	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7802.D

Cal Level: 6 , Cal Amount: 200.00000		
=====		
23-NOV-2010 21:26	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6621.D
14-NOV-2010 19:17	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6200.D
29-DEC-2010 09:33	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7801.D

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

29-DEC-2010 10:17	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7803.D
29-DEC-2010 12:20	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7808.D

Report Date : 29-Dec-2010 12:18

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
End Cal Date : 29-DEC-2010 11:20
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
Last Edit : 29-Dec-2010 12:18 3ux10.i
Curve Type : Average

Calibration File Names:

Level 1: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6626.D
Level 2: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6625.D
Level 3: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6624.D
Level 4: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6623.D
Level 5: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6622.D
Level 6: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6621.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
8 Dichlorodifluoromethane	0.18204	0.18097	0.17896	0.15489	0.18012	0.18032	0.17622	5.956
9 Chloromethane	0.23676	0.24715	0.23393	0.22952	0.23691	0.20352	0.23130	6.396
10 Vinyl Chloride	0.21912	0.21900	0.21588	0.21565	0.22009	0.20117	0.21515	3.294
11 Bromomethane	0.10361	0.12226	0.09785	0.10182	0.11281	0.08927	0.10460	11.054
12 Chloroethane	0.14381	0.14196	0.12666	0.12563	0.13649	0.11597	0.13175	8.207
13 Trichlorofluoromethane	0.19533	0.20304	0.19580	0.17916	0.20944	0.17351	0.19271	7.171
14 Dichlorofluoromethane	0.36335	0.36819	0.37724	0.36293	0.36692	0.36318	0.36697	1.497
15 Acrolein	0.03022	0.02940	0.03330	0.03531	0.03036	0.03784	0.03274	10.227
16 Acetone	0.07861	0.06499	0.05571	0.05788	0.05405	0.05945	0.06178	14.674
17 1,1-Dichloroethene	0.22873	0.21313	0.21702	0.20946	0.20613	0.20917	0.21394	3.813
18 Freon-113	0.15461	0.14033	0.14168	0.14030	0.15739	0.14791	0.14704	5.130
19 Iodomethane	0.32300	0.33697	0.31796	0.30191	0.33164	0.29034	0.31697	5.624
20 Carbon Disulfide	0.60854	0.58915	0.59573	0.57316	0.61153	0.58024	0.59306	2.572
21 Methylene Chloride	0.28785	0.26911	0.24922	0.23786	0.25654	0.23300	0.25560	7.998
22 Acetonitrile	0.02235	0.01720	0.01494	0.01798	0.01541	0.01925	0.01785	15.259
23 Acrylonitrile	0.07280	0.07382	0.07464	0.07764	0.07716	0.08084	0.07615	3.903
24 Methyl tert-butyl ether	0.60634	0.57350	0.58933	0.59013	0.63823	0.61212	0.60161	3.751
25 trans-1,2-Dichloroethene	0.25634	0.24096	0.24476	0.23599	0.25201	0.23613	0.24436	3.432
26 Hexane	0.04034	0.03616	0.04432	0.04340	0.05072	0.04865	0.04393	12.133
27 Vinyl acetate	0.23471	0.23792	0.25978	0.26798	0.28129	0.29602	0.26295	9.143
28 1,1-Dichloroethane	0.39954	0.38119	0.38606	0.37873	0.40398	0.38359	0.38885	2.672
29 tert-Butyl Alcohol	0.01217	0.00949	0.00994	0.01137	0.01099	0.01268	0.01111	11.165
30 2-Butanone	0.07577	0.07483	0.07453	0.07887	0.07484	0.08207	0.07682	3.948
M 31 1,2-Dichloroethene (total)	0.25316	0.24112	0.24411	0.23855	0.25420	0.23987	0.24517	2.795
32 cis-1,2-dichloroethene	0.24998	0.24128	0.24347	0.24112	0.25639	0.24361	0.24597	2.453
33 2,2-Dichloropropane	0.21911	0.20964	0.21750	0.21065	0.23732	0.21103	0.21754	4.803
34 Bromochloromethane	0.12469	0.11712	0.11870	0.11462	0.11961	0.11502	0.11829	3.126
35 Chloroform	0.37999	0.35967	0.36502	0.35936	0.38093	0.36395	0.36815	2.661

Report Date : 29-Dec-2010 12:18

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
36 Tetrahydrofuran	0.05824	0.05099	0.04989	0.05136	0.05215	0.05361	0.05271	5.659
37 1,1,1-Trichloroethane	0.27662	0.27874	0.28632	0.27406	0.30129	0.27589	0.28216	3.651
38 1,1-Dichloropropene	0.27131	0.26560	0.28261	0.28487	0.30115	0.28945	0.28250	4.513
39 Carbon Tetrachloride	0.20154	0.20478	0.21359	0.21256	0.23848	0.22721	0.21636	6.481
40 1,2-Dichloroethane	0.26123	0.26044	0.26480	0.25999	0.27272	0.26298	0.26369	1.808
41 Benzene	0.95879	0.89866	0.91890	0.91503	0.95374	0.92360	0.92812	2.523
42 Trichloroethene	0.24380	0.23224	0.23269	0.23266	0.24280	0.23320	0.23623	2.325
43 1,2-Dichloropropane	0.21448	0.20060	0.20853	0.20971	0.22058	0.21486	0.21146	3.230
44 1,4-Dioxane	0.00094	0.00078	0.00102	0.00148	0.00123	0.00151	0.00116	25.795 <-
45 Dibromomethane	0.11871	0.11409	0.11598	0.11773	0.12224	0.12047	0.11820	2.502
46 Bromodichloromethane	0.22406	0.22113	0.22448	0.23823	0.25612	0.25693	0.23682	6.913
47 2-Chloroethyl vinyl ether	0.08665	0.09207	0.10345	0.11841	0.11891	0.13187	0.10856	16.093
48 cis-1,3-Dichloropropene	0.24297	0.24229	0.26823	0.29941	0.32174	0.32458	0.28320	13.190
49 4-Methyl-2-pentanone	0.12801	0.13644	0.14352	0.15521	0.15611	0.17257	0.14864	10.730
50 Toluene	1.26245	1.27660	1.29890	1.27851	1.37531	1.28907	1.29680	3.113
51 trans-1,3-Dichloropropene	0.28298	0.27964	0.30358	0.33088	0.36816	0.36770	0.32216	12.381
52 Ethyl Methacrylate	0.23382	0.26692	0.29202	0.31936	0.35601	0.35420	0.30372	16.066
53 1,1,2-Trichloroethane	0.25810	0.24114	0.24178	0.23662	0.25106	0.23775	0.24441	3.443
54 1,3-Dichloropropane	0.43601	0.41319	0.42260	0.42798	0.45311	0.43178	0.43078	3.133
55 Tetrachloroethene	0.28195	0.25862	0.26349	0.25491	0.27543	0.25390	0.26471	4.352
56 2-Hexanone	0.09632	0.11046	0.11951	0.13348	0.13542	0.15002	0.12420	15.558
57 Dibromochloromethane	0.20077	0.19816	0.21285	0.22418	0.24877	0.25234	0.22284	10.506
58 1,2-Dibromoethane	0.22025	0.22340	0.22769	0.23556	0.24582	0.23842	0.23185	4.206
59 Chlorobenzene	0.88876	0.83881	0.83414	0.83300	0.87549	0.82829	0.84975	3.018
60 1,1,1,2-Tetrachloroethane	0.26379	0.25526	0.25797	0.26397	0.29352	0.27333	0.26797	5.214
61 Ethylbenzene	0.41572	0.41840	0.44015	0.44465	0.47798	0.45064	0.44126	5.192
62 m + p-Xylene	0.51774	0.53548	0.55287	0.56502	0.60694	0.56236	0.55674	5.453
M 63 Xylenes (total)	0.51695	0.52896	0.54585	0.55820	0.60272	0.55335	0.55101	5.386
64 Xylene-o	0.51537	0.51592	0.53181	0.54456	0.59427	0.53533	0.53954	5.397
65 Styrene	0.72622	0.75664	0.81140	0.86901	0.94337	0.88552	0.83203	9.901
66 Bromoform	0.10369	0.10618	0.11244	0.13111	0.14750	0.15901	0.12665	18.175
67 Isopropylbenzene	1.24238	1.24319	1.31476	1.37035	1.49420	1.35214	1.33617	7.044
68 1,1,2,2-Tetrachloroethane	0.53549	0.54219	0.55125	0.54693	0.58476	0.58947	0.55835	4.108
69 1,4-Dichloro-2-butene	0.05371	0.06683	0.07200	0.08878	0.09434	0.11838	0.08234	27.970
70 1,2,3-Trichloropropane	0.16235	0.16990	0.17244	0.17749	0.18339	0.18873	0.17572	5.427
71 Bromobenzene	0.62006	0.62022	0.63769	0.64238	0.69282	0.69863	0.65197	5.387

Report Date : 29-Dec-2010 12:18

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\PO1229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
72 n-Propylbenzene	0.54236	0.60894	0.66206	0.67200	0.74531	0.72281	0.65891	11.318	
73 2-Chlorotoluene	0.55655	0.58935	0.61205	0.60952	0.65659	0.63338	0.60957	5.685	
74 1,3,5-Trimethylbenzene	1.71631	1.86066	2.00730	2.05896	2.25229	2.11141	2.00116	9.468	
75 4-Chlorotoluene	0.56623	0.60798	0.61639	0.63897	0.68239	0.66940	0.63023	6.774	
76 tert-Butylbenzene	1.46055	1.55350	1.69184	1.74374	1.91762	1.78139	1.69144	9.690	
77 1,2,4-Trimethylbenzene	1.76058	1.90788	2.03840	2.08437	2.28584	2.12434	2.03357	8.928	
78 sec-Butylbenzene	1.98005	2.08356	2.24138	2.33162	2.58916	2.36063	2.26440	9.540	
79 4-Isopropyltoluene	1.67931	1.76814	1.89805	2.00527	2.20994	2.00299	1.92729	9.828	
80 1,3-Dichlorobenzene	1.27709	1.21168	1.22776	1.20965	1.28703	1.20267	1.23598	2.974	
81 1,4-Dichlorobenzene	1.37093	1.30259	1.27313	1.25409	1.33584	1.23455	1.29519	3.981	
82 n-Butylbenzene	1.34977	1.36563	1.48836	1.56063	1.76838	1.55721	1.51500	10.157	
83 1,2-Dichlorobenzene	1.24044	1.17817	1.14839	1.14513	1.22856	1.08659	1.17121	4.904	
84 1,2-Dibromo-3-chloropropane	0.07480	0.07361	0.08447	0.08598	0.09880	0.09289	0.08509	11.609	
85 1,2,4-Trichlorobenzene	0.72641	0.66276	0.68001	0.70365	0.80321	0.61224	0.69804	9.246	
86 Hexachlorobutadiene	0.25893	0.24072	0.24888	0.25722	0.29836	0.22313	0.25454	9.870	
87 Naphthalene	1.24251	1.25509	1.43934	1.58576	1.89152	1.46550	1.47995	16.256	
88 1,2,3-Trichlorobenzene	0.66613	0.61237	0.62450	0.65029	0.74070	0.54656	0.64009	10.043	
89 Ethyl Ether	0.18741	0.18345	0.19163	0.18515	0.19289	0.18637	0.18782	1.975	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 3-Chloropropene	0.10555	0.11270	0.12372	0.12004	0.12569	0.12674	0.11907	7.011	
92 Isopropyl Ether	0.19748	0.20425	0.20923	0.20695	0.21930	0.21813	0.20923	3.990	
93 2-Chloro-1,3-butadiene	0.32831	0.33462	0.34830	0.34629	0.35826	0.35950	0.34588	3.612	
94 Propionitrile	0.02136	0.02432	0.02467	0.02364	0.02598	0.02748	0.02458	8.480	
95 Ethyl Acetate	0.17003	0.15981	0.15806	0.15130	0.17276	0.17226	0.16404	5.421	
96 Methacrylonitrile	0.11506	0.12636	0.12399	0.11560	0.12341	0.12406	0.12142	3.971	
97 Isobutanol	0.00697	0.00790	0.00769	0.00720	0.00739	0.00712	0.00738	4.821	<-
98 Cyclohexane	0.30787	0.28573	0.32999	0.32164	0.37445	0.34833	0.32800	9.454	
99 n-Butanol	0.00468	0.00527	0.00603	0.00585	0.00642	0.00628	0.00575	11.553	<-
100 Methyl Methacrylate	0.13904	0.14397	0.14455	0.13970	0.15465	0.15690	0.14647	5.168	
101 2-Nitropropane	0.03176	0.03501	0.03333	0.03657	0.04347	0.04667	0.03780	15.720	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
103 Cyclohexanone	0.01808	0.01711	0.01827	0.01827	0.01947	0.01916	0.01839	4.554	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Report Date : 29-Dec-2010 12:18

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
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 Last Edit : 29-Dec-2010 12:18 3ux10.i
 Curve Type : Average

Compound	5.000	10.000	25.000	50.000	100.000	200.000	RRF	% RSD	
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6				
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
140 1-Chlorohexane	0.23326	0.24673	0.26032	0.26964	0.30403	0.31055	0.27075	11.424	
141 1,3,5-Trichlorobenzene	0.81881	0.75661	0.75941	0.76783	0.86631	0.68469	0.77561	7.957	
143 Methyl Acetate	0.15622	0.14977	0.15215	0.15379	0.15779	0.15895	0.15478	2.267	
144 Methylcyclohexane	0.28403	0.26673	0.30138	0.30645	0.36426	0.34816	0.31184	12.010	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
146 2-Methylnaphthalene	0.33455	0.34164	0.34668	0.38420	0.38692	0.36032	0.35905	6.187	
147 Tetrahydrothiophene	0.13935	0.14463	0.16468	0.18081	0.20413	0.21952	0.17552	18.306	
148 1,4-Dichlorobutane	0.38108	0.36767	0.38657	0.38918	0.42186	0.44454	0.39848	7.229	
149 Vinyl Acetate-86	0.02631	0.02581	0.03066	0.03384	0.03483	0.03641	0.03131	14.323	
150 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
151 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
152 n-Heptane	0.04042	0.03307	0.03515	0.04522	0.04452	0.04869	0.04118	14.839	
153 t-Butyl ethyl ether	0.63965	0.66003	0.68570	0.68153	0.71686	0.71163	0.68257	4.337	
154 t-Amyl methyl ether	0.58724	0.62037	0.62795	0.62447	0.66322	0.65940	0.63044	4.443	
155 1,2,3-Trimethylbenzene	1.66024	1.77538	1.79476	1.79618	1.95335	1.96473	1.82411	6.362	
156 n-Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
\$ 4 Dibromofluoromethane	0.20099	0.19533	0.19298	0.19712	0.19804	0.19913	0.19726	1.436	
\$ 5 1,2-Dichloroethane-d4	0.24117	0.23347	0.21935	0.23543	0.23324	0.22274	0.23090	3.562	
\$ 6 Toluene-d8	1.10092	1.06382	1.10604	1.09043	1.11815	1.08356	1.09382	1.739	
\$ 7 Bromofluorobenzene	0.38849	0.36163	0.37034	0.40593	0.39294	0.38474	0.38401	4.148	

Report Date : 29-Dec-2010 12:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
 Last Edit : 29-Dec-2010 12:18 3ux10.i

Calibration File Names:

Level 1: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6626.D
 Level 2: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6625.D
 Level 3: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6624.D
 Level 4: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6623.D
 Level 5: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6622.D
 Level 6: \\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6621.D

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
8 Dichlorodifluoromethane	0.18204	0.18097	0.17896	0.15489	0.18012	0.18032	AVRG		0.17622		5.95635
9 Chloromethane	0.23676	0.24715	0.23393	0.22952	0.23691	0.20352	AVRG		0.23130		6.39637
10 Vinyl Chloride	0.21912	0.21900	0.21588	0.21565	0.22009	0.20117	AVRG		0.21515		3.29429
11 Bromomethane	0.10361	0.12226	0.09785	0.10182	0.11281	0.08927	AVRG		0.10460		11.05393
12 Chloroethane	0.14381	0.14196	0.12666	0.12563	0.13649	0.11597	AVRG		0.13175		8.20711
13 Trichlorofluoromethane	0.19533	0.20304	0.19580	0.17916	0.20944	0.17351	AVRG		0.19271		7.17142
14 Dichlorofluoromethane	0.36335	0.36819	0.37724	0.36293	0.36692	0.36318	AVRG		0.36697		1.49680
15 Acrolein	0.03022	0.02940	0.03330	0.03531	0.03036	0.03784	AVRG		0.03274		10.22699
16 Acetone	0.07861	0.06499	0.05571	0.05788	0.05405	0.05945	AVRG		0.06178		14.67413
17 1,1-Dichloroethene	0.22873	0.21313	0.21702	0.20946	0.20613	0.20917	AVRG		0.21394		3.81315
18 Freon-113	0.15461	0.14033	0.14168	0.14030	0.15739	0.14791	AVRG		0.14704		5.12960
19 Iodomethane	0.32300	0.33697	0.31796	0.30191	0.33164	0.29034	AVRG		0.31697		5.62367
20 Carbon Disulfide	0.60854	0.58915	0.59573	0.57316	0.61153	0.58024	AVRG		0.59306		2.57220
21 Methylene Chloride	0.28785	0.26911	0.24922	0.23786	0.25654	0.23300	AVRG		0.25560		7.99829

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Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
22 Acetonitrile	32948	55035	114880	299435	515543	1312319	QUAD	-0.61152	71.41747	-24.13458	0.99721
23 Acrylonitrile	0.07280	0.07382	0.07464	0.07764	0.07716	0.08084	AVRG		0.07615		3.90253
24 Methyl tert-butyl ether	0.60634	0.57350	0.58933	0.59013	0.63823	0.61212	AVRG		0.60161		3.75120
25 trans-1,2-Dichloroethene	0.25634	0.24096	0.24476	0.23599	0.25201	0.23613	AVRG		0.24436		3.43213
26 Hexane	0.04034	0.03616	0.04432	0.04340	0.05072	0.04865	AVRG		0.04393		12.13334
27 Vinyl acetate	0.23471	0.23792	0.25978	0.26798	0.28129	0.29602	AVRG		0.26295		9.14270
28 1,1-Dichloroethane	0.39954	0.38119	0.38606	0.37873	0.40398	0.38359	AVRG		0.38885		2.67212
29 tert-Butyl Alcohol	0.01217	0.00949	0.00994	0.01137	0.01099	0.01268	AVRG		0.01111		11.16468 <-
30 2-Butanone	0.07577	0.07483	0.07453	0.07887	0.07484	0.08207	AVRG		0.07682		3.94761
M 31 1,2-Dichloroethene (total)	0.25316	0.24112	0.24411	0.23855	0.25420	0.23987	AVRG		0.24517		2.79543
32 cis-1,2-dichloroethene	0.24998	0.24128	0.24347	0.24112	0.25639	0.24361	AVRG		0.24597		2.45338
33 2,2-Dichloropropane	0.21911	0.20964	0.21750	0.21065	0.23732	0.21103	AVRG		0.21754		4.80262
34 Bromochloromethane	0.12469	0.11712	0.11870	0.11462	0.11961	0.11502	AVRG		0.11829		3.12613
35 Chloroform	0.37999	0.35967	0.36502	0.35936	0.38093	0.36395	AVRG		0.36815		2.66142
36 Tetrahydrofuran	0.05824	0.05099	0.04989	0.05136	0.05215	0.05361	AVRG		0.05271		5.65868
37 1,1,1-Trichloroethane	0.27662	0.27874	0.28632	0.27406	0.30129	0.27589	AVRG		0.28216		3.65138
38 1,1-Dichloropropene	0.27131	0.26560	0.28261	0.28487	0.30115	0.28945	AVRG		0.28250		4.51309
39 Carbon Tetrachloride	0.20154	0.20478	0.21359	0.21256	0.23848	0.22721	AVRG		0.21636		6.48070
40 1,2-Dichloroethane	0.26123	0.26044	0.26480	0.25999	0.27272	0.26298	AVRG		0.26369		1.80761
41 Benzene	0.95879	0.89866	0.91890	0.91503	0.95374	0.92360	AVRG		0.92812		2.52309
42 Trichloroethene	0.24380	0.23224	0.23269	0.23266	0.24280	0.23320	AVRG		0.23623		2.32517
43 1,2-Dichloropropane	0.21448	0.20060	0.20853	0.20971	0.22058	0.21486	AVRG		0.21146		3.23045

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 Last Edit : 29-Dec-2010 12:18 3ux10.i

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
44 1,4-Dioxane	6912	12420	39321	123307	206603	515438	QUAD	2.04690	806	-497	0.99542<-
45 Dibromomethane	0.11871	0.11409	0.11598	0.11773	0.12224	0.12047	AVRG		0.11820		2.50162
46 Bromodichloromethane	0.22406	0.22113	0.22448	0.23823	0.25612	0.25693	AVRG		0.23682		6.91298
47 2-Chloroethyl vinyl ether	25546	58933	159134	394371	795739	1798165	WLINR	0.06849	0.12210		0.99293
48 cis-1,3-Dichloropropene	0.24297	0.24229	0.26823	0.29941	0.32174	0.32458	AVRG		0.28320		13.18997
49 4-Methyl-2-pentanone	0.12801	0.13644	0.14352	0.15521	0.15611	0.17257	AVRG		0.14864		10.73026
50 Toluene	1.26245	1.27660	1.29890	1.27851	1.37531	1.28907	AVRG		1.29680		3.11333
51 trans-1,3-Dichloropropene	0.28298	0.27964	0.30358	0.33088	0.36816	0.36770	AVRG		0.32216		12.38079
52 Ethyl Methacrylate	23900	59822	159836	402237	875243	1857527	WLINR	0.03536	0.34243		0.99538
53 1,1,2-Trichloroethane	0.25810	0.24114	0.24178	0.23662	0.25106	0.23775	AVRG		0.24441		3.44346
54 1,3-Dichloropropane	0.43601	0.41319	0.42260	0.42798	0.45311	0.43178	AVRG		0.43078		3.13318
55 Tetrachloroethene	0.28195	0.25862	0.26349	0.25491	0.27543	0.25390	AVRG		0.26471		4.35217
56 2-Hexanone	19691	49511	130823	336229	665882	1573497	WLINR	0.06843	0.13947		0.99536
57 Dibromochloromethane	0.20077	0.19816	0.21285	0.22418	0.24877	0.25234	AVRG		0.22284		10.50579
58 1,2-Dibromoethane	0.22025	0.22340	0.22769	0.23556	0.24582	0.23842	AVRG		0.23185		4.20581
59 Chlorobenzene	0.88876	0.83881	0.83414	0.83300	0.87549	0.82829	AVRG		0.84975		3.01820
60 1,1,1,2-Tetrachloroethane	0.26379	0.25526	0.25797	0.26397	0.29352	0.27333	AVRG		0.26797		5.21437
61 Ethylbenzene	0.41572	0.41840	0.44015	0.44465	0.47798	0.45064	AVRG		0.44126		5.19172
62 m + p-Xylene	0.51774	0.53548	0.55287	0.56502	0.60694	0.56236	AVRG		0.55674		5.45314
M 63 Xylenes (total)	0.51695	0.52896	0.54585	0.55820	0.60272	0.55335	AVRG		0.55101		5.38613
64 Xylene-o	0.51537	0.51592	0.53181	0.54456	0.59427	0.53533	AVRG		0.53954		5.39717
65 Styrene	0.72622	0.75664	0.81140	0.86901	0.94337	0.88552	AVRG		0.83203		9.90098

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	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
66 Bromoform	10599	23797	61545	165135	362624	833873	WLINR	0.05877	0.15515		0.99398
67 Isopropylbenzene	1.24238	1.24319	1.31476	1.37035	1.49420	1.35214	AVRG		1.33617		7.04429
68 1,1,2,2-Tetrachloroethane	0.53549	0.54219	0.55125	0.54693	0.58476	0.58947	AVRG		0.55835		4.10780
69 1,4-Dichloro-2-butene	3188	8211	21099	61383	124933	309881	QUAD	0.05197	11.58420	-6.85512	0.99977
70 1,2,3-Trichloropropane	0.16235	0.16990	0.17244	0.17749	0.18339	0.18873	AVRG		0.17572		5.42710
71 Bromobenzene	0.62006	0.62022	0.63769	0.64238	0.69282	0.69863	AVRG		0.65197		5.38714
72 n-Propylbenzene	0.54236	0.60894	0.66206	0.67200	0.74531	0.72281	AVRG		0.65891		11.31836
73 2-Chlorotoluene	0.55655	0.58935	0.61205	0.60952	0.65659	0.63338	AVRG		0.60957		5.68464
74 1,3,5-Trimethylbenzene	1.71631	1.86066	2.00730	2.05896	2.25229	2.11141	AVRG		2.00116		9.46779
75 4-Chlorotoluene	0.56623	0.60798	0.61639	0.63897	0.68239	0.66940	AVRG		0.63023		6.77409
76 tert-Butylbenzene	1.46055	1.55350	1.69184	1.74374	1.91762	1.78139	AVRG		1.69144		9.69016
77 1,2,4-Trimethylbenzene	1.76058	1.90788	2.03840	2.08437	2.28584	2.12434	AVRG		2.03357		8.92779
78 sec-Butylbenzene	1.98005	2.08356	2.24138	2.33162	2.58916	2.36063	AVRG		2.26440		9.54008
79 4-Isopropyltoluene	1.67931	1.76814	1.89805	2.00527	2.20994	2.00299	AVRG		1.92729		9.82785
80 1,3-Dichlorobenzene	1.27709	1.21168	1.22776	1.20965	1.28703	1.20267	AVRG		1.23598		2.97419
81 1,4-Dichlorobenzene	1.37093	1.30259	1.27313	1.25409	1.33584	1.23455	AVRG		1.29519		3.98146
82 n-Butylbenzene	1.34977	1.36563	1.48836	1.56063	1.76838	1.55721	AVRG		1.51500		10.15682
83 1,2-Dichlorobenzene	1.24044	1.17817	1.14839	1.14513	1.22856	1.08659	AVRG		1.17121		4.90351
84 1,2-Dibromo-3-chloropropane	0.07480	0.07361	0.08447	0.08598	0.09880	0.09289	AVRG		0.08509		11.60923
85 1,2,4-Trichlorobenzene	0.72641	0.66276	0.68001	0.70365	0.80321	0.61224	AVRG		0.69804		9.24611
86 Hexachlorobutadiene	0.25893	0.24072	0.24888	0.25722	0.29836	0.22313	AVRG		0.25454		9.87036
87 Naphthalene	73756	154210	421801	1096394	2504927	+++++	WLINR	0.05241	1.83955		0.99011

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	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
88 1,2,3-Trichlorobenzene	0.66613	0.61237	0.62450	0.65029	0.74070	0.54656	AVRG		0.64009		10.04314
89 Ethyl Ether	0.18741	0.18345	0.19163	0.18515	0.19289	0.18637	AVRG		0.18782		1.97524
90 Ethanol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
91 3-Chloropropene	0.10555	0.11270	0.12372	0.12004	0.12569	0.12674	AVRG		0.11907		7.01093
92 Isopropyl Ether	0.19748	0.20425	0.20923	0.20695	0.21930	0.21813	AVRG		0.20923		3.99031
93 2-Chloro-1,3-butadiene	0.32831	0.33462	0.34830	0.34629	0.35826	0.35950	AVRG		0.34588		3.61166
94 Propionitrile	0.02136	0.02432	0.02467	0.02364	0.02598	0.02748	AVRG		0.02458		8.48034
95 Ethyl Acetate	0.17003	0.15981	0.15806	0.15130	0.17276	0.17226	AVRG		0.16404		5.42084
96 Methacrylonitrile	0.11506	0.12636	0.12399	0.11560	0.12341	0.12406	AVRG		0.12142		3.97096
97 Isobutanol	0.00697	0.00790	0.00769	0.00720	0.00739	0.00712	AVRG		0.00738		4.82107 <-
98 Cyclohexane	0.30787	0.28573	0.32999	0.32164	0.37445	0.34833	AVRG		0.32800		9.45388
99 n-Butanol	0.00468	0.00527	0.00603	0.00585	0.00642	0.00628	AVRG		0.00575		11.55348 <-
100 Methyl Methacrylate	0.13904	0.14397	0.14455	0.13970	0.15465	0.15690	AVRG		0.14647		5.16837
101 2-Nitropropane	9445	20644	49870	112061	258138	604717	WLINR	0.10624	0.04532		0.99224
102 Chloropicrin	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
103 Cyclohexanone	0.01808	0.01711	0.01827	0.01827	0.01947	0.01916	AVRG		0.01839		4.55402
104 Pentachloroethane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
105 Benzyl Chloride	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
134 Thiophene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
135 Crotononitrile(1st Isomer)	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-

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	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
138 Paraldehyde	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
139 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
140 1-Chlorohexane	0.23326	0.24673	0.26032	0.26964	0.30403	0.31055	AVRG		0.27075		11.42421
141 1,3,5-Trichlorobenzene	0.81881	0.75661	0.75941	0.76783	0.86631	0.68469	AVRG		0.77561		7.95687
143 Methyl Acetate	0.15622	0.14977	0.15215	0.15379	0.15779	0.15895	AVRG		0.15478		2.26720
144 Methylcyclohexane	0.28403	0.26673	0.30138	0.30645	0.36426	0.34816	AVRG		0.31184		12.01044
145 Dimethoxymethane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
146 2-Methylnaphthalene	0.33455	0.34164	0.34668	0.38420	0.38692	0.36032	AVRG		0.35905		6.18652
147 Tetrahydrothiophene	12324	26583	79833	190631	398388	878185	WLINR	0.05820	0.21454		0.99514
148 1,4-Dichlorobutane	0.38108	0.36767	0.38657	0.38918	0.42186	0.44454	AVRG		0.39848		7.22901
149 Vinyl Acetate-86	0.02631	0.02581	0.03066	0.03384	0.03483	0.03641	AVRG		0.03131		14.32317
150 1,3-Butadiene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
151 Ethyl Acrylate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
152 n-Heptane	0.04042	0.03307	0.03515	0.04522	0.04452	0.04869	AVRG		0.04118		14.83897
153 t-Butyl ethyl ether	0.63965	0.66003	0.68570	0.68153	0.71686	0.71163	AVRG		0.68257		4.33711
154 t-Amyl methyl ether	0.58724	0.62037	0.62795	0.62447	0.66322	0.65940	AVRG		0.63044		4.44304
155 1,2,3-Trimethylbenzene	1.66024	1.77538	1.79476	1.79618	1.95335	1.96473	AVRG		1.82411		6.36233
156 n-Butyl Acetate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
=====											
\$ 4 Dibromofluoromethane	0.20099	0.19533	0.19298	0.19712	0.19804	0.19913	AVRG		0.19726		1.43590
\$ 5 1,2-Dichloroethane-d4	0.24117	0.23347	0.21935	0.23543	0.23324	0.22274	AVRG		0.23090		3.56193
\$ 6 Toluene-d8	1.10092	1.06382	1.10604	1.09043	1.11815	1.08356	AVRG		1.09382		1.73866

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 Last Edit : 29-Dec-2010 12:18 3ux10.i

Compound	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
\$ 7 Bromofluorobenzene	0.38849	0.36163	0.37034	0.40593	0.39294	0.38474	AVRG		0.38401		4.14797

Report Date : 29-Dec-2010 12:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 14-NOV-2010 16:46
End Cal Date : 29-DEC-2010 11:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\A3UX10.I\PO1229A-IC.B\8260LLUX10.M
Last Edit : 29-Dec-2010 12:18 A3UX10.I

Curve	Formula	Units
=====	=====	=====
Averaged	$\text{Amt} = \text{Rsp}/\text{ml}$	Response
Wt Linear	$\text{Amt} = b + \text{Rsp}/\text{ml}$	Response
Quad	$\text{Amt} = b + \text{ml} \cdot \text{Rsp} + \text{ml}^2 \cdot \text{Rsp}^2$	Response

Method (check the applicable box): ☒ 8260A ☒ 8260B ☐ 624

Analysis Date: 12-29-10 Run batch ID: 0364104

Curve ID: P01229 (curve ID must include instrument designation and date reference)

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

Item for review	Level I		Level II	
	Yes	No	Yes	No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs \leq 30% RSD	Yes		Yes	
Linear Regression curve fit for all $>15\%$ RSD (35% 624) $r^2 > 0.980$ (> 0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-cave, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	Yes		Yes	
Manual integrations: necessary, correct & documented	NA		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

Reviewed by Analyst/ Level I: [Signature] Date: 12-30-10

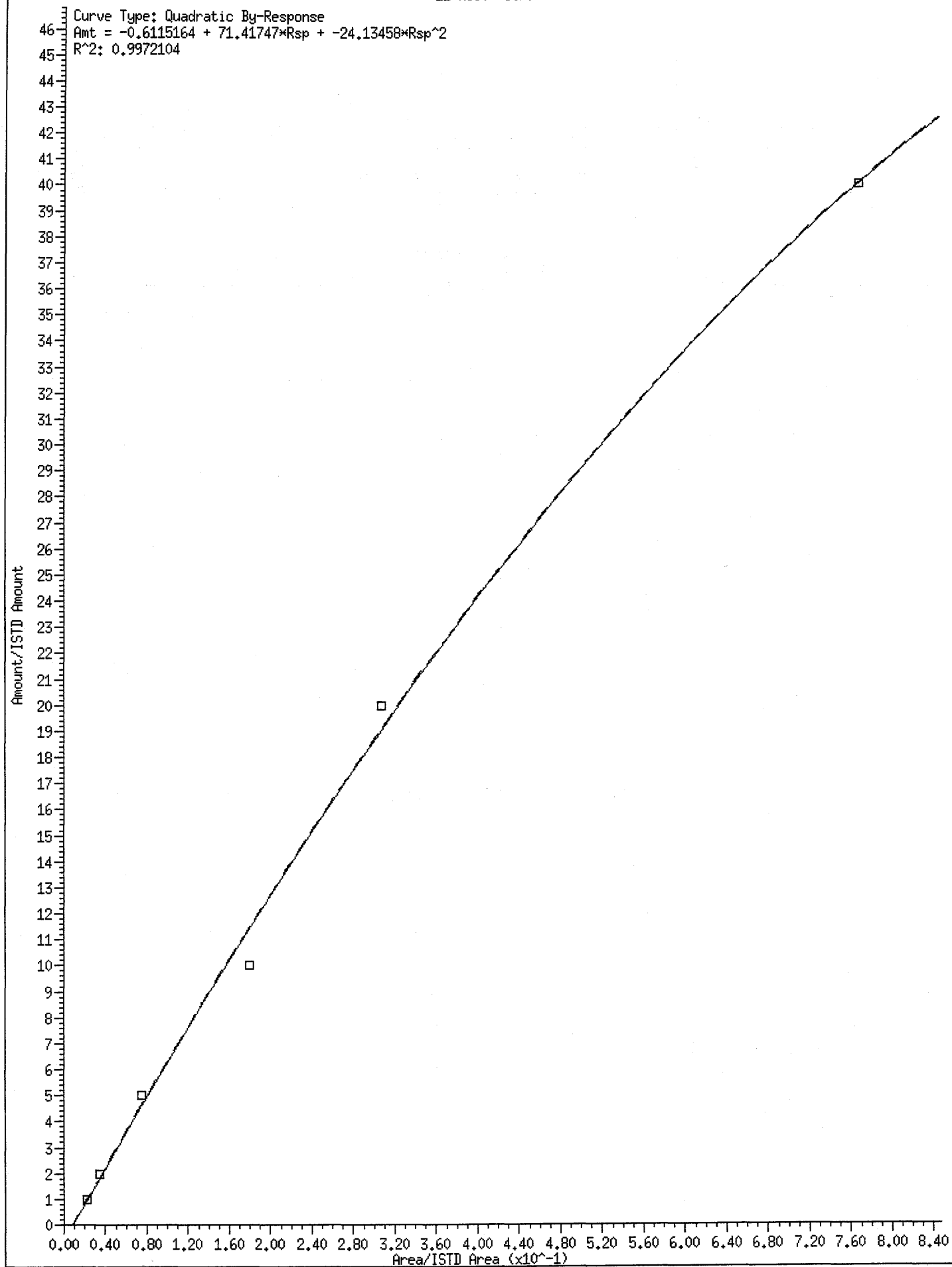
Reviewed by Peer/Sup/ Level II: [Signature] Date: 1-3-11

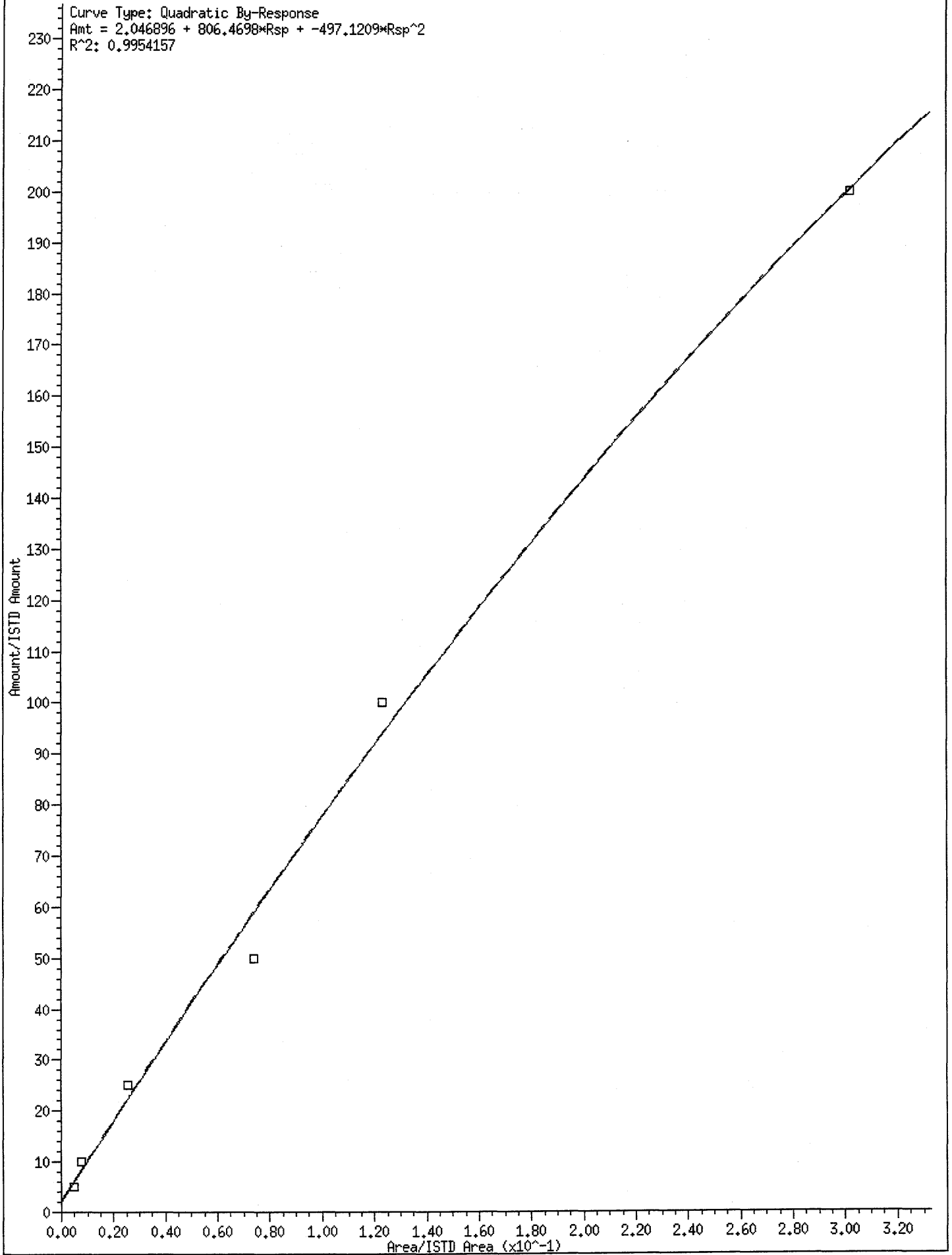
By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

Reviewed by Peer/Sup: _____ Date: _____

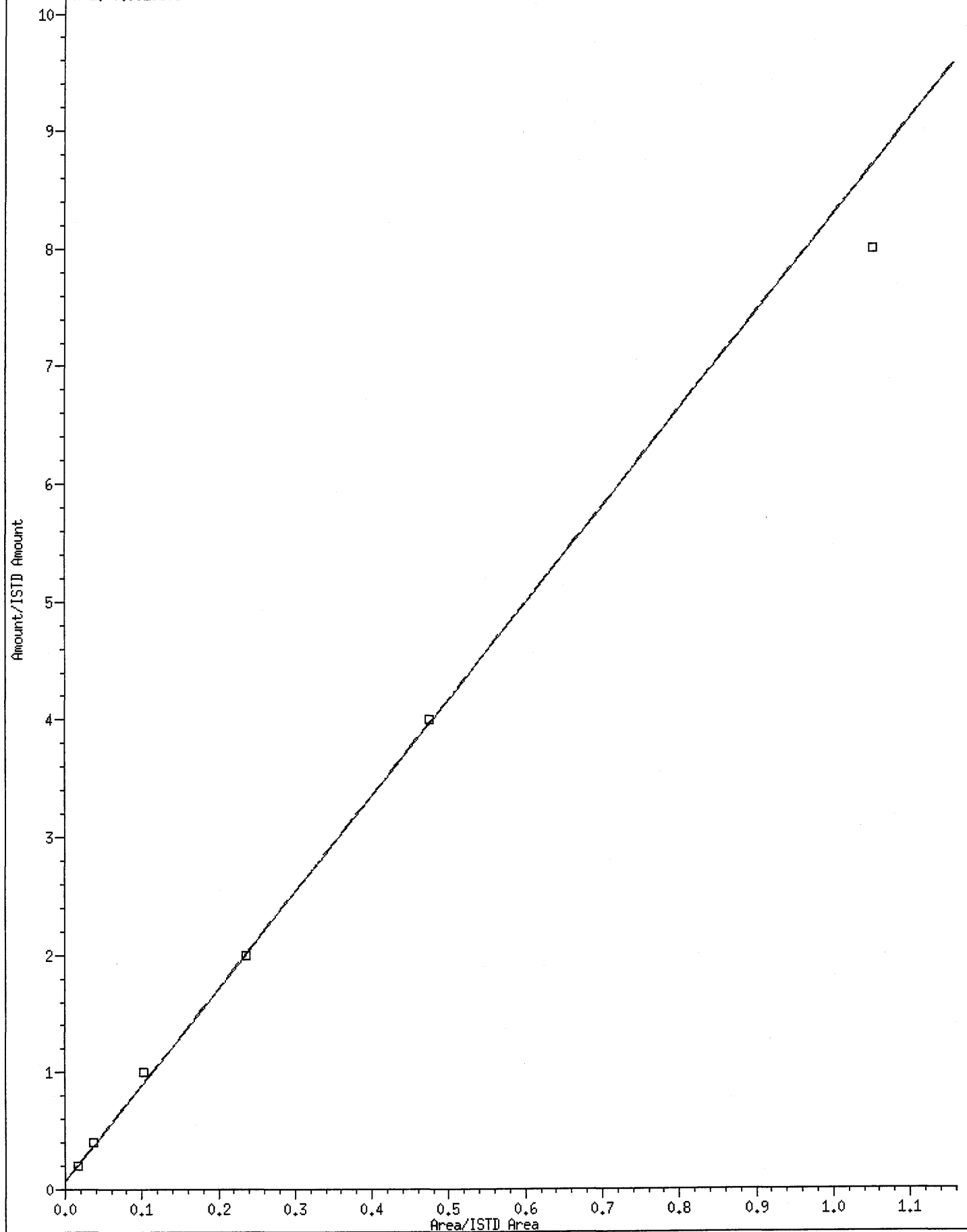
22 Acetonitrile



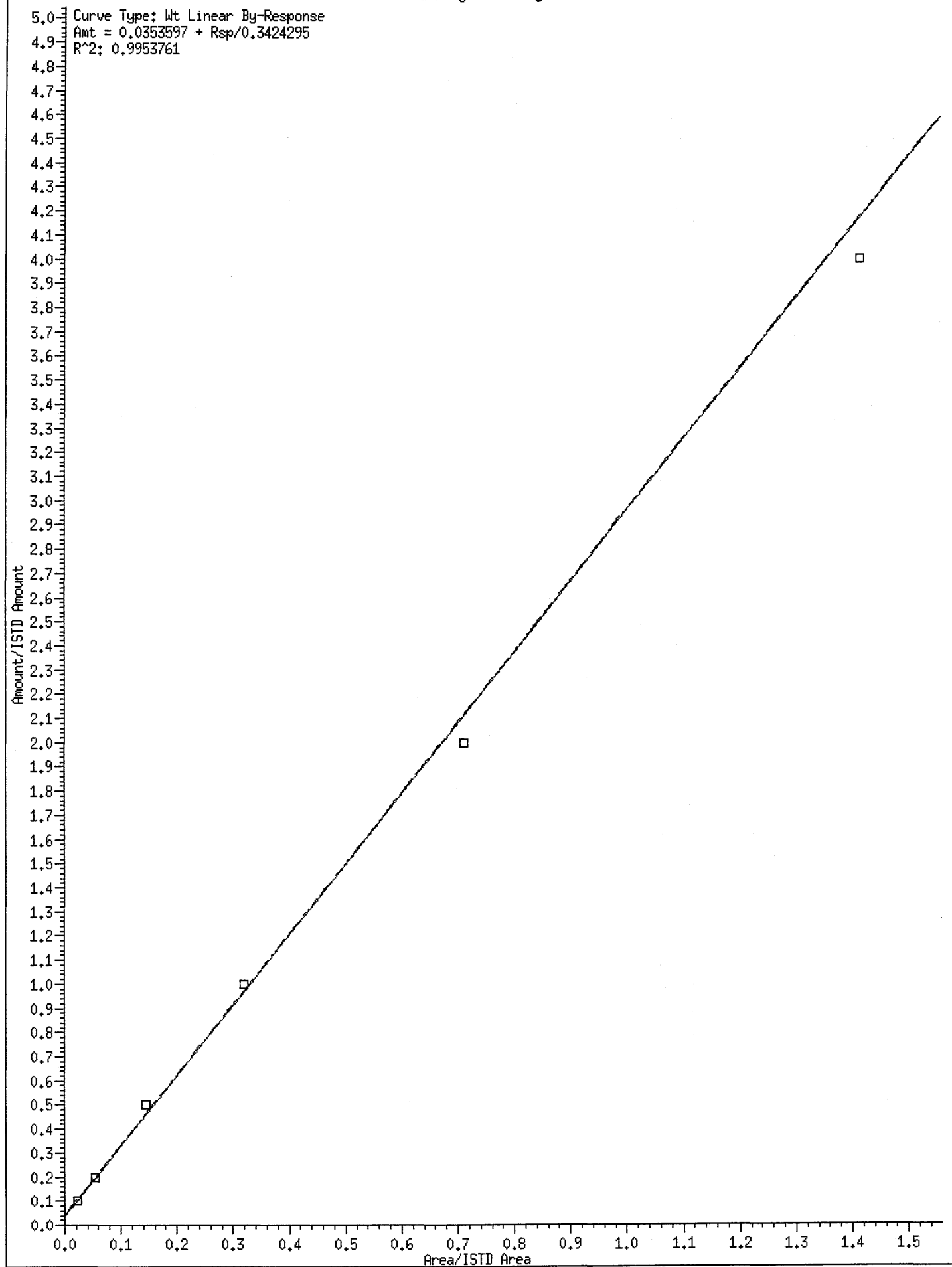


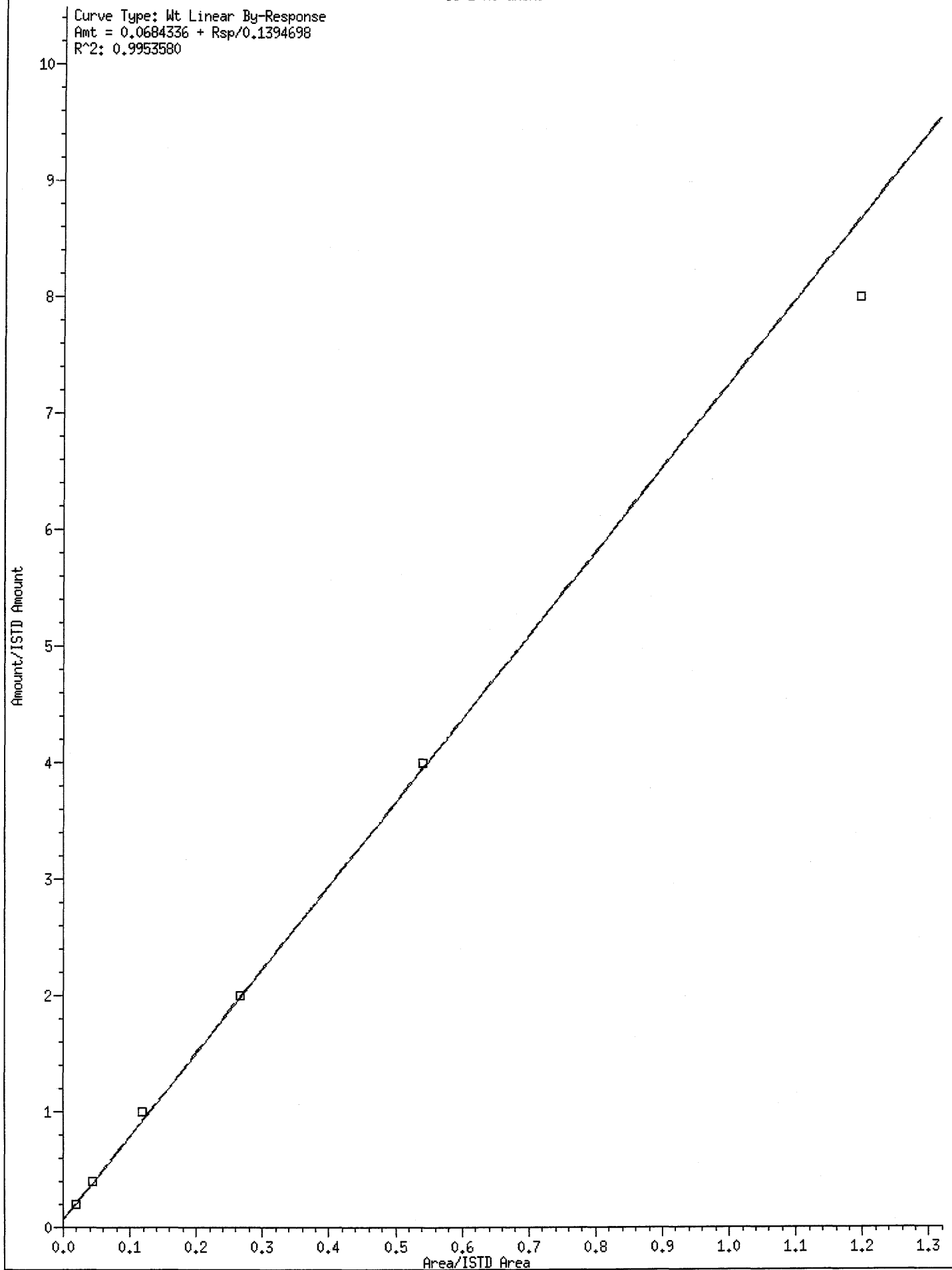
47 2-Chloroethyl vinyl ether

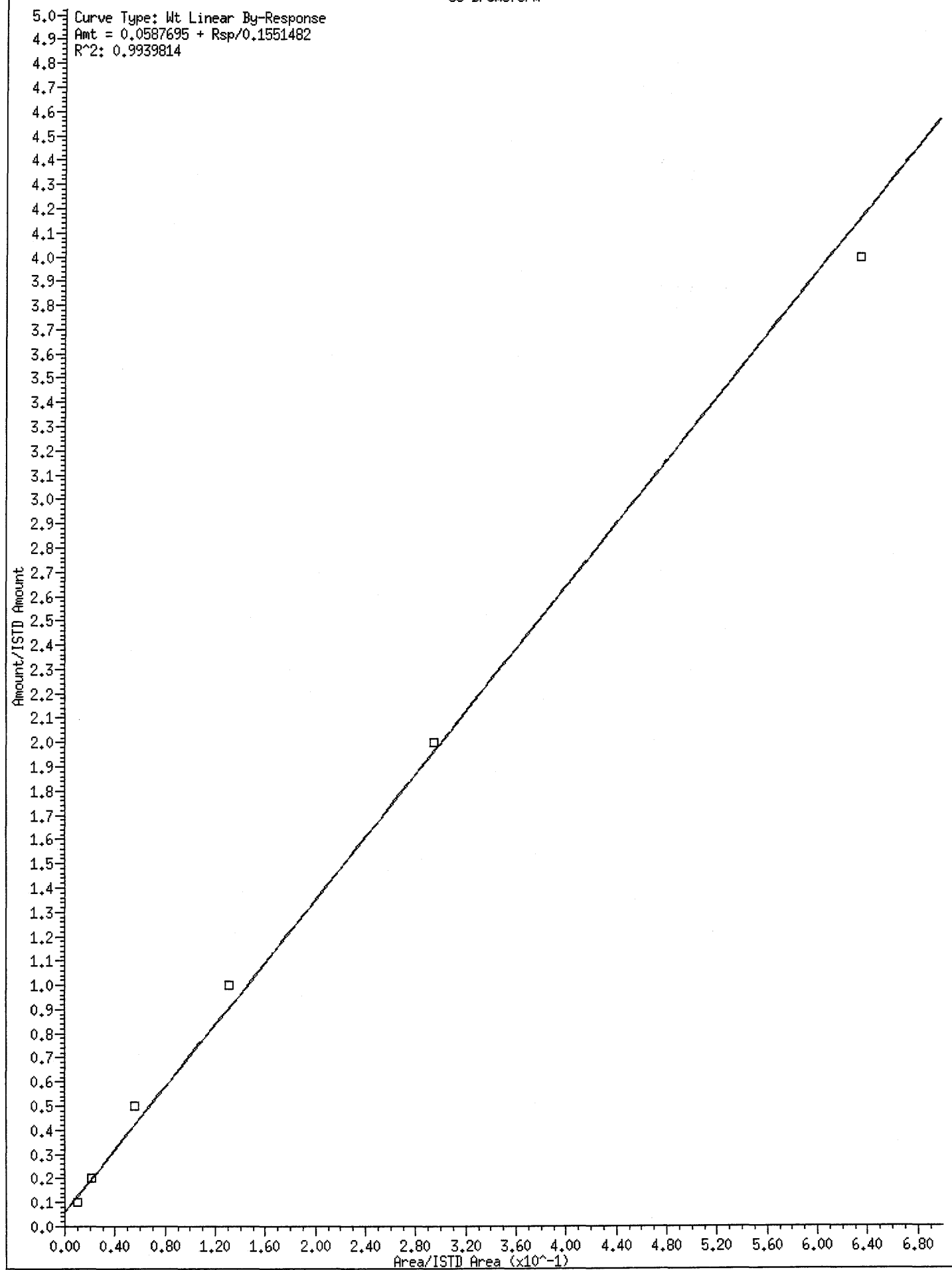
Curve Type: Mt Linear By-Response
 Amt = 0.0684874 + Rsp/0.1221029
 R²: 0.9929306

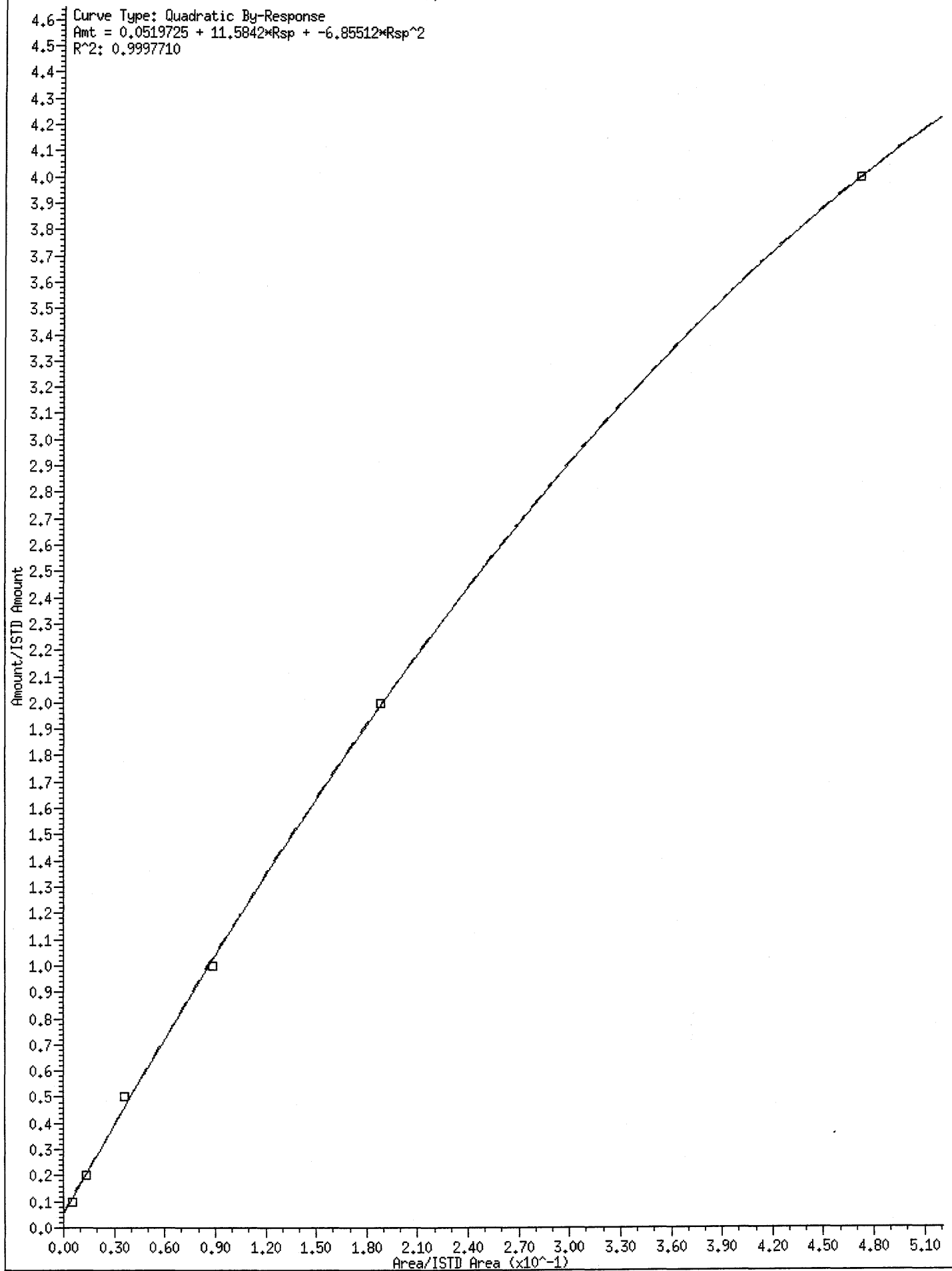


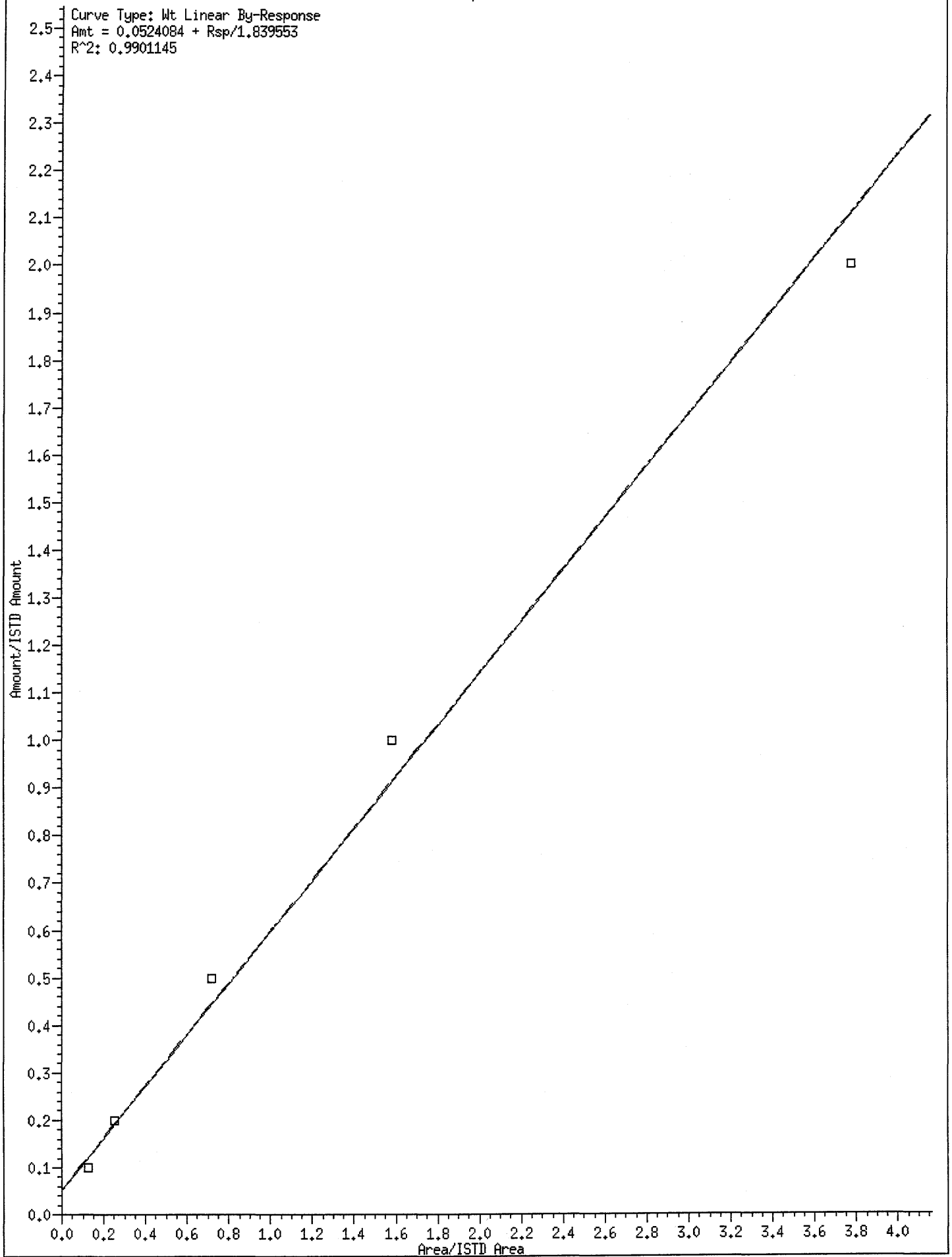
52 Ethyl Methacrylate











TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7801.D
Lab Smp Id: 200NG-IC
Inj Date : 29-DEC-2010 09:33
Operator : 1904
Smp Info : 200NG-IC
Misc Info : P01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 a3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG					AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96		5.114	5.114	(1.000)	1704440	50.0000	
* 2 Chlorobenzene-d5	117		7.788	7.788	(1.000)	1311071	50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.036	10.036	(1.000)	654407	50.0000	
\$ 4 Dibromofluoromethane	113		4.534	4.534	(0.887)	1357592	200.000	191.26
\$ 5 1,2-Dichloroethane-d4	65		4.818	4.818	(0.942)	1518558	200.000	163.83
\$ 6 Toluene-d8	98		6.475	6.475	(0.831)	5682499	200.000	203.21
\$ 7 Bromofluorobenzene	95		8.900	8.900	(1.143)	2017702	200.000	193.64
8 Dichlorodifluoromethane	85		1.493	1.493	(0.292)	1229380	200.000	184.19
9 Chloromethane	50		1.611	1.611	(0.315)	1387549	200.000	156.13
10 Vinyl Chloride	62		1.706	1.706	(0.334)	1371526	200.000	166.28
11 Bromomethane	94		1.990	1.990	(0.389)	608611	200.000	146.81
12 Chloroethane	64		2.085	2.085	(0.408)	790627	200.000	157.72
13 Trichlorofluoromethane	101		2.298	2.298	(0.449)	1182965	200.000	175.04
15 Acrolein	56		2.605	2.605	(0.509)	2579597	2000.00	2082.0
16 Acetone	43		2.724	2.724	(0.533)	810667	400.000	353.08
17 1,1-Dichloroethene	96		2.712	2.712	(0.530)	1426066	200.000	197.17
18 Freon-113	151		2.735	2.735	(0.535)	1008447	200.000	179.72
19 Iodomethane	142		2.842	2.842	(0.556)	1979436	200.000	188.30
20 Carbon Disulfide	76		2.913	2.913	(0.570)	3955925	200.000	212.14
21 Methylene Chloride	84		3.090	3.090	(0.604)	1588540	200.000	180.78
22 Acetonitrile	41		2.948	2.948	(0.577)	1312319	2000.00	2344.7
23 Acrylonitrile	53		3.280	3.280	(0.641)	1102280	400.000	400.11

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.327	3.327	(0.651)	4173293	200.000	179.94
25 trans-1,2-Dichloroethene	96	3.327	3.327	(0.651)	1609853	200.000	196.82
26 Hexane	86	3.564	3.564	(0.697)	331673	200.000	177.94
27 Vinyl acetate	43	3.694	3.694	(0.722)	2018192	200.000	177.82
28 1,1-Dichloroethane	63	3.670	3.670	(0.718)	2615205	200.000	192.26
29 tert-Butyl Alcohol	59	3.161	3.161	(0.618)	1729324	4000.00	4129.2
30 2-Butanone	43	4.143	4.143	(0.810)	1119004	400.000	341.34
32 cis-1,2-dichloroethene	96	4.143	4.143	(0.810)	1660874	200.000	192.77
33 2,2-Dichloropropane	77	4.155	4.155	(0.813)	1438780	200.000	175.61
34 Bromochloromethane	128	4.345	4.345	(0.850)	784195	200.000	187.89
35 Chloroform	83	4.404	4.404	(0.861)	2481357	200.000	188.00
36 Tetrahydrofuran	42	4.392	4.392	(0.859)	365532	200.000	159.26
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	1880985	200.000	179.78
38 1,1-Dichloropropene	75	4.711	4.711	(0.921)	1973384	200.000	185.79
39 Carbon Tetrachloride	117	4.723	4.723	(0.924)	1549088	200.000	186.14
40 1,2-Dichloroethane	62	4.889	4.889	(0.956)	1792911	200.000	169.62
41 Benzene	78	4.889	4.889	(0.956)	6296917	200.000	200.78
42 Trichloroethene	130	5.421	5.421	(1.060)	1589902	200.000	189.04
43 1,2-Dichloropropane	63	5.611	5.611	(1.097)	1464849	200.000	214.96
44 1,4-Dioxane	88	5.717	5.717	(1.118)	515438	10000.0	9914.0
45 Dibromomethane	93	5.705	5.705	(1.116)	821330	200.000	196.81
46 Bromodichloromethane	83	5.836	5.836	(1.141)	1751667	200.000	209.68
47 2-Chloroethyl vinyl ether	63	6.084	6.084	(1.190)	1798165	400.000	468.28
48 cis-1,3-Dichloropropene	75	6.226	6.226	(1.217)	2212924	200.000	223.80
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	2353017	400.000	376.41
50 Toluene	91	6.534	6.534	(0.839)	6760239	200.000	204.56
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	1928302	200.000	211.97
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	1857527	200.000	208.30
53 1,1,2-Trichloroethane	97	6.877	6.877	(0.883)	1246854	200.000	206.38
54 1,3-Dichloropropane	76	7.031	7.031	(0.903)	2264398	200.000	207.30
55 Tetrachloroethene	164	7.042	7.042	(0.904)	1331502	200.000	187.24
56 2-Hexanone	43	7.090	7.090	(0.910)	1573497	400.000	343.56
57 Dibromochloromethane	129	7.244	7.244	(0.930)	1323348	200.000	216.34
58 1,2-Dibromoethane	107	7.362	7.362	(0.945)	1250339	200.000	199.53
59 Chlorobenzene	112	7.823	7.823	(1.005)	4343782	200.000	198.52
60 1,1,1,2-Tetrachloroethane	131	7.894	7.894	(1.014)	1433396	200.000	199.55
61 Ethylbenzene	106	7.918	7.918	(1.017)	2363296	200.000	199.48
62 m + p-Xylene	106	8.025	8.025	(1.030)	5898403	400.000	400.72
64 Xylene-o	106	8.403	8.403	(1.079)	2807438	200.000	194.85
65 Styrene	104	8.415	8.415	(1.081)	4643917	200.000	203.19
66 Bromoform	173	8.593	8.593	(1.103)	833873	200.000	213.69
67 Isopropylbenzene	105	8.758	8.758	(1.125)	7091007	200.000	195.90
68 1,1,2,2-Tetrachloroethane	83	9.019	9.019	(0.899)	1543005	200.000	217.84
69 1,4-Dichloro-2-butene	53	9.078	9.078	(0.905)	309881	200.000	165.64
70 1,2,3-Trichloropropane	110	9.066	9.066	(0.903)	494020	200.000	194.91
71 Bromobenzene	156	9.054	9.054	(0.902)	1828752	200.000	205.93
72 n-Propylbenzene	120	9.161	9.161	(0.913)	1892040	200.000	211.01
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	1657941	200.000	206.70
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	5526897	200.000	214.85
75 4-Chlorotoluene	126	9.350	9.350	(0.932)	1752239	200.000	206.90
76 tert-Butylbenzene	119	9.646	9.646	(0.961)	4663005	200.000	203.28
77 1,2,4-Trimethylbenzene	105	9.693	9.693	(0.966)	5560744	200.000	214.53
78 sec-Butylbenzene	105	9.871	9.871	(0.983)	6179247	200.000	210.38
79 4-Isopropyltoluene	119	10.013	10.013	(0.998)	5243092	200.000	211.44

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
80 1,3-Dichlorobenzene	146	9.977	9.977	(0.994)	3148144	200.000	201.60	
81 1,4-Dichlorobenzene	146	10.060	10.060	(1.002)	3231587	200.000	196.21	
82 n-Butylbenzene	91	10.415	10.415	(1.038)	4076208	200.000	209.46	
83 1,2-Dichlorobenzene	146	10.427	10.427	(1.039)	2844282	200.000	199.44	
84 1,2-Dibromo-3-chloropropane	157	11.196	11.196	(1.116)	243157	200.000	234.33	
85 1,2,4-Trichlorobenzene	180	12.036	12.036	(1.199)	1602622	200.000	202.88	
86 Hexachlorobutadiene	225	12.225	12.225	(1.218)	584074	200.000	189.49	
87 Naphthalene	128	12.284	12.284	(1.224)	3836125	200.000	223.29	
88 1,2,3-Trichlorobenzene	180	12.533	12.533	(1.249)	1430697	200.000	210.90	
98 Cyclohexane	56	4.640	4.640	(0.907)	2374837	200.000	184.48	
143 Methyl Acetate	43	3.007	3.007	(0.588)	2167315	400.000	351.09	
144 Methylcyclohexane	83	5.611	5.611	(1.097)	2373685	200.000	186.09	
141 1,3,5-Trichlorobenzene	180	11.421	11.421	(1.138)	1792253	200.000	198.99	
149 Vinyl Acetate-86	86	3.694	3.694	(0.722)	248229	200.000	196.23	

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7801.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7801.D
 Lab Smp Id: 200NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 23-NOV-2010
 Calibration Time: 22:09

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,6

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1704440	852220	3408880	1704440	0.00
2 Chlorobenzene-d5	1311071	655536	2622142	1311071	0.00
3 1,4-Dichlorobenze	654407	327204	1308814	654407	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PO12294-IC.b\UXX7801.D
 Date: 29-DEC-2010 09:33

Client ID:

Sample Info: 200NG-IC

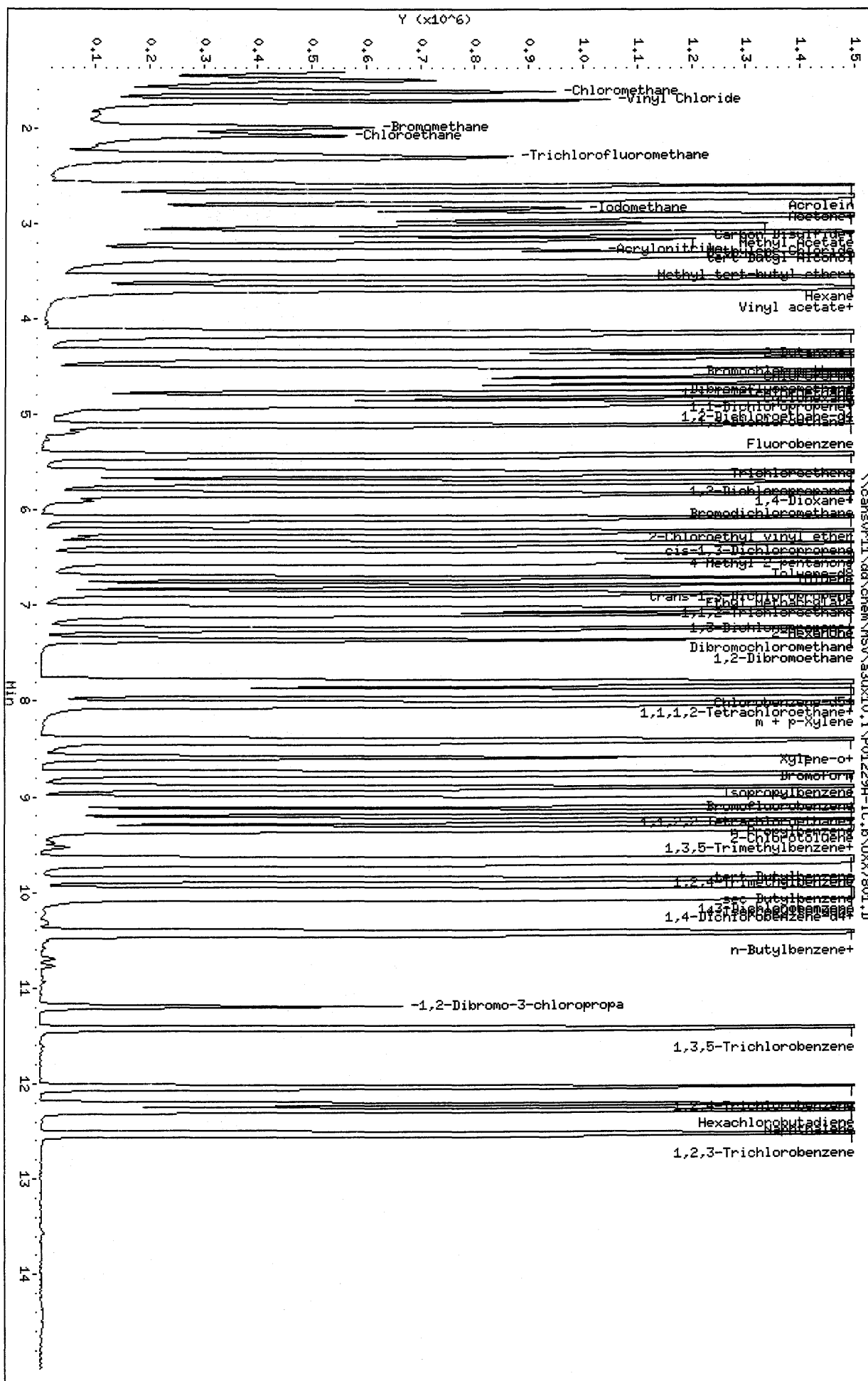
Purge Volume: 5.0

Column phase: DB624

Instrument: 33ux10.1

Operator: 1904

Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7802.D
Lab Smp Id: 100NG-IC
Inj Date : 29-DEC-2010 09:55
Operator : 1904
Smp Info : 100NG-IC
Misc Info : P01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 a3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 21:26 Cal File: UXX6621.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====		----	----	-----	-----	-----	-----	-----
*	1 Fluorobenzene	96	5.113	5.113	(1.000)	1672927	50.0000	
*	2 Chlorobenzene-d5	117	7.787	7.787	(1.000)	1229245	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.036	10.036	(1.000)	662148	50.0000	
\$	4 Dibromofluoromethane	113	4.533	4.533	(0.887)	662600	100.000	95.817
\$	5 1,2-Dichloroethane-d4	65	4.817	4.817	(0.942)	780401	100.000	88.269
\$	6 Toluene-d8	98	6.474	6.474	(0.831)	2748953	100.000	105.16
\$	7 Bromofluorobenzene	95	8.900	8.900	(1.143)	966051	100.000	99.030
	8 Dichlorodifluoromethane	85	1.492	1.492	(0.292)	602664	100.000	92.215
	9 Chloromethane	50	1.611	1.611	(0.315)	792652	100.000	93.383
	10 Vinyl Chloride	62	1.705	1.705	(0.334)	736381	100.000	92.975
	11 Bromomethane	94	1.989	1.989	(0.389)	377435	100.000	96.133
	12 Chloroethane	64	2.072	2.072	(0.405)	456675	100.000	95.241
	13 Trichlorofluoromethane	101	2.297	2.297	(0.449)	700759	100.000	107.28
	15 Acrolein	56	2.605	2.605	(0.509)	1015639	1000.00	823.86
	16 Acetone	43	2.723	2.723	(0.533)	361656	200.000	159.58
	17 1,1-Dichloroethene	96	2.711	2.711	(0.530)	689676	100.000	97.202
	18 Freon-113	151	2.735	2.735	(0.535)	526596	100.000	97.251
	19 Iodomethane	142	2.841	2.841	(0.556)	1109605	100.000	107.90
	20 Carbon Disulfide	76	2.912	2.912	(0.570)	2046091	100.000	111.01
	21 Methylene Chloride	84	3.102	3.102	(0.607)	858355	100.000	98.926
	22 Acetonitrile	41	2.948	2.948	(0.577)	515543	1000.00	895.55
	23 Acrylonitrile	53	3.279	3.279	(0.641)	516309	200.000	189.45

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL ( ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.338	3.338	(0.653)	2135413	100.000	95.092
25 trans-1,2-Dichloroethene	96	3.338	3.338	(0.653)	843205	100.000	104.82
26 Hexane	86	3.563	3.563	(0.697)	169694	100.000	94.644
27 Vinyl acetate	43	3.705	3.705	(0.725)	941170	100.000	86.726
28 1,1-Dichloroethane	63	3.670	3.670	(0.718)	1351644	100.000	101.58
29 tert-Butyl Alcohol	59	3.173	3.173	(0.621)	735134	2000.00	1734.3
30 2-Butanone	43	4.143	4.143	(0.810)	500787	200.000	156.95
32 cis-1,2-dichloroethene	96	4.155	4.155	(0.813)	857856	100.000	101.48
33 2,2-Dichloropropane	77	4.155	4.155	(0.813)	794035	100.000	100.22
34 Bromochloromethane	128	4.344	4.344	(0.850)	400210	100.000	98.358
35 Chloroform	83	4.403	4.403	(0.861)	1274530	100.000	99.060
36 Tetrahydrofuran	42	4.391	4.391	(0.859)	174471	100.000	78.186
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	1008087	100.000	99.660
38 1,1-Dichloropropene	75	4.711	4.711	(0.921)	1007619	100.000	97.767
39 Carbon Tetrachloride	117	4.723	4.723	(0.924)	797908	100.000	99.761
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	912483	100.000	90.130
41 Benzene	78	4.888	4.888	(0.956)	3191083	100.000	103.57
42 Trichloroethene	130	5.433	5.433	(1.062)	812376	100.000	99.471
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	738022	100.000	109.67
44 1,4-Dioxane	88	5.717	5.717	(1.118)	206603	5000.00	4028.6
45 Dibromomethane	93	5.705	5.705	(1.116)	408982	100.000	100.33
46 Bromodichloromethane	83	5.835	5.835	(1.141)	856952	100.000	105.54
47 2-Chloroethyl vinyl ether	63	6.084	6.084	(1.190)	795739	200.000	209.37
48 cis-1,3-Dichloropropene	75	6.226	6.226	(1.218)	1076491	100.000	111.32
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	1044613	200.000	172.03
50 Toluene	91	6.533	6.533	(0.839)	3381175	100.000	109.39
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	905121	100.000	107.59
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	875243	100.000	105.50
53 1,1,2-Trichloroethane	97	6.876	6.876	(0.883)	617221	100.000	108.92
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	1113957	100.000	108.42
55 Tetrachloroethene	164	7.042	7.042	(0.904)	677131	100.000	102.92
56 2-Hexanone	43	7.101	7.101	(0.912)	665882	200.000	157.92
57 Dibromochloromethane	129	7.243	7.243	(0.930)	611588	100.000	108.00
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	604338	100.000	103.42
59 Chlorobenzene	112	7.823	7.823	(1.005)	2152377	100.000	105.17
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	721606	100.000	108.17
61 Ethylbenzene	106	7.918	7.918	(1.017)	1175114	100.000	105.88
62 m + p-Xylene	106	8.024	8.024	(1.030)	2984334	200.000	217.13
64 Xylene-o	106	8.403	8.403	(1.079)	1461002	100.000	108.52
65 Styrene	104	8.415	8.415	(1.081)	2319278	100.000	108.98
66 Bromoform	173	8.592	8.592	(1.103)	362624	100.000	101.30
67 Isopropylbenzene	105	8.758	8.758	(1.125)	3673470	100.000	108.55
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	774390	100.000	106.44
69 1,4-Dichloro-2-butene	53	9.077	9.077	(0.905)	124933	100.000	69.542
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	242863	100.000	94.840
71 Bromobenzene	156	9.054	9.054	(0.902)	917495	100.000	102.24
72 n-Propylbenzene	120	9.160	9.160	(0.913)	987015	100.000	108.88
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	869518	100.000	106.90
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	2982704	100.000	113.72
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	903681	100.000	105.40
76 tert-Butylbenzene	119	9.645	9.645	(0.961)	2539500	100.000	109.22
77 1,2,4-Trimethylbenzene	105	9.693	9.693	(0.966)	3027129	100.000	114.44
78 sec-Butylbenzene	105	9.870	9.870	(0.983)	3428811	100.000	114.67
79 4-Isopropyltoluene	119	10.012	10.012	(0.998)	2926621	100.000	116.16

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
80 1,3-Dichlorobenzene	146	9.977	9.977	(0.994)	1704404	100.000	107.65
81 1,4-Dichlorobenzene	146	10.059	10.059	(1.002)	1769041	100.000	106.30
82 n-Butylbenzene	91	10.414	10.414	(1.038)	2341856	100.000	118.76
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	1626974	100.000	112.55
84 1,2-Dibromo-3-chloropropane	157	11.195	11.195	(1.116)	130846	100.000	123.28
85 1,2,4-Trichlorobenzene	180	12.035	12.035	(1.199)	1063687	100.000	135.18
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	395118	100.000	131.17
87 Naphthalene	128	12.284	12.284	(1.224)	2504927	100.000	144.21
88 1,2,3-Trichlorobenzene	180	12.532	12.532	(1.249)	980902	100.000	144.03
98 Cyclohexane	56	4.652	4.652	(0.910)	1252866	100.000	100.27
143 Methyl Acetate	43	3.007	3.007	(0.588)	1055909	200.000	175.19
144 Methylcyclohexane	83	5.610	5.610	(1.097)	1218764	100.000	98.400
141 1,3,5-Trichlorobenzene	180	11.420	11.420	(1.138)	1147248	100.000	127.89
149 Vinyl Acetate-86	86	3.705	3.705	(0.725)	116537	100.000	95.441

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7802.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7802.D
 Lab Smp Id: 100NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 23-NOV-2010
 Calibration Time: 21:26

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1672927	836464	3345854	1672927	0.00
2 Chlorobenzene-d5	1229245	614623	2458490	1229245	0.00
3 1,4-Dichlorobenze	662148	331074	1324296	662148	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Date: 29-DEC-2010 09:55

Client ID:

Sample Info: 100NG-IC

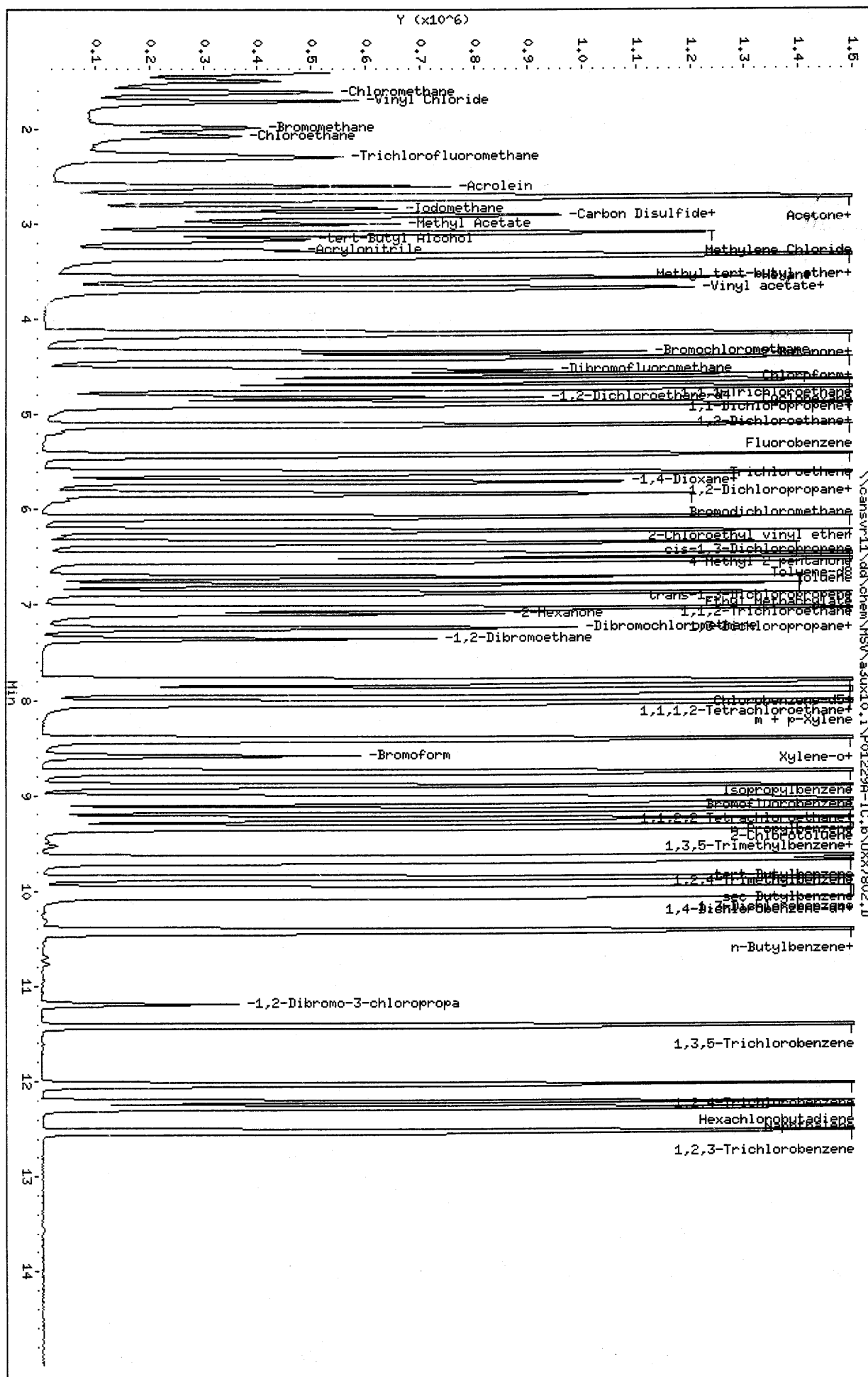
Purge Volume: 5.0

Column phase: DB624

Instrument: 33ux10.i

Operator: 1904

Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7803.D
Lab Smp Id: 50NG-IC
Inj Date : 29-DEC-2010 10:17
Operator : 1904
Smp Info : 50NG-IC
Misc Info : P01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 4
Comment :
Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 3ux10.i
Cal Date : 23-NOV-2010 21:47
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: CANPMSV24

Inst ID: 3ux10.i

Quant Type: ISTD
Cal File: UXX6622.D
Calibration Sample, Level: 4

Compound Sublist: 2-8260.SUB

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ng)	(ng)	
*****	----		----	-----	-----	-----	-----	-----	
* 1 Fluorobenzene	96		5.114	5.114	(1.000)	1665231	50.0000		
* 2 Chlorobenzene-d5	117		7.788	7.788	(1.000)	1259516	50.0000		
* 3 1,4-Dichlorobenzene-d4	152		10.036	10.036	(1.000)	691398	50.0000		
\$ 4 Dibromofluoromethane	113		4.534	4.534	(0.887)	328253	50.0000	48.277	
\$ 5 1,2-Dichloroethane-d4	65		4.818	4.818	(0.942)	392045	50.0000	45.741	
\$ 6 Toluene-d8	98		6.474	6.474	(0.831)	1373414	50.0000	51.089	
\$ 7 Bromofluorobenzene	95		8.900	8.900	(1.143)	511276	50.0000	51.416	
8 Dichlorodifluoromethane	85		1.493	1.493	(0.292)	257933	50.0000	40.124	
9 Chloromethane	50		1.611	1.611	(0.315)	382205	50.0000	45.570	
10 Vinyl Chloride	62		1.706	1.706	(0.334)	359099	50.0000	45.994	
11 Bromomethane	94		1.990	1.990	(0.389)	169560	50.0000	43.312	
12 Chloroethane	64		2.072	2.072	(0.405)	209199	50.0000	44.090	
13 Trichlorofluoromethane	101		2.297	2.297	(0.449)	298349	50.0000	44.846	
15 Acrolein	56		2.605	2.605	(0.509)	587923	500.000	494.69	
16 Acetone	43		2.723	2.723	(0.533)	192752	100.000	87.272	
17 1,1-Dichloroethene	96		2.711	2.711	(0.530)	348802	50.0000	49.691	
18 Freon-113	151		2.735	2.735	(0.535)	233624	50.0000	43.550	
19 Iodomethane	142		2.842	2.842	(0.556)	502749	50.0000	48.343	
20 Carbon Disulfide	76		2.913	2.913	(0.570)	954452	50.0000	51.096	
21 Methylene Chloride	84		3.090	3.090	(0.604)	396093	50.0000	45.204	
22 Acetonitrile	41		2.948	2.948	(0.577)	299435	500.000	522.72	
23 Acrylonitrile	53		3.279	3.279	(0.641)	258574	100.000	96.671	

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.339	3.339	(0.653)	982710	50.0000	44.756
25 trans-1,2-Dichloroethene	96	3.327	3.327	(0.651)	392979	50.0000	46.828
26 Hexane	86	3.563	3.563	(0.697)	72276	50.0000	40.941
27 Vinyl acetate	43	3.694	3.694	(0.722)	446256	50.0000	42.682
28 1,1-Dichloroethane	63	3.670	3.670	(0.718)	630672	50.0000	47.765
29 tert-Butyl Alcohol	59	3.161	3.161	(0.618)	378669	1000.00	912.27
30 2-Butanone	43	4.143	4.143	(0.810)	262672	100.000	85.173
32 cis-1,2-dichloroethene	96	4.143	4.143	(0.810)	401514	50.0000	47.671
33 2,2-Dichloropropane	77	4.155	4.155	(0.813)	350787	50.0000	44.878
34 Bromochloromethane	128	4.344	4.344	(0.850)	190877	50.0000	47.523
35 Chloroform	83	4.404	4.404	(0.861)	598423	50.0000	47.100
36 Tetrahydrofuran	42	4.392	4.392	(0.859)	85519	50.0000	39.661
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	456372	50.0000	45.660
38 1,1-Dichloropropene	75	4.711	4.711	(0.921)	474371	50.0000	46.673
39 Carbon Tetrachloride	117	4.723	4.723	(0.924)	353954	50.0000	45.172
40 1,2-Dichloroethane	62	4.889	4.889	(0.956)	432942	50.0000	44.108
41 Benzene	78	4.889	4.889	(0.956)	1523740	50.0000	49.554
42 Trichloroethene	130	5.421	5.421	(1.060)	387428	50.0000	48.046
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	349223	50.0000	51.589
44 1,4-Dioxane	88	5.717	5.717	(1.118)	123307	2500.00	2513.5
45 Dibromomethane	93	5.705	5.705	(1.116)	196040	50.0000	48.715
46 Bromodichloromethane	83	5.835	5.835	(1.141)	396700	50.0000	49.465
47 2-Chloroethyl vinyl ether	63	6.084	6.084	(1.190)	394371	100.000	104.06
48 cis-1,3-Dichloropropene	75	6.226	6.226	(1.217)	498582	50.0000	51.614
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	516928	100.000	88.295
50 Toluene	91	6.533	6.533	(0.839)	1610299	50.0000	50.402
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	416753	50.0000	48.753
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	402237	50.0000	47.632
53 1,1,2-Trichloroethane	97	6.877	6.877	(0.883)	298028	50.0000	50.888
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	539049	50.0000	50.769
55 Tetrachloroethene	164	7.042	7.042	(0.904)	321062	50.0000	47.693
56 2-Hexanone	43	7.090	7.090	(0.910)	336229	100.000	81.483
57 Dibromochloromethane	129	7.243	7.243	(0.930)	282364	50.0000	49.256
58 1,2-Dibromoethane	107	7.362	7.362	(0.945)	296696	50.0000	49.778
59 Chlorobenzene	112	7.823	7.823	(1.005)	1049171	50.0000	49.868
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	332478	50.0000	48.912
61 Ethylbenzene	106	7.918	7.918	(1.017)	560049	50.0000	48.979
62 m + p-Xylene	106	8.024	8.024	(1.030)	1423314	100.000	100.46
64 Xylene-o	106	8.403	8.403	(1.079)	685876	50.0000	49.462
65 Styrene	104	8.415	8.415	(1.081)	1094529	50.0000	50.114
66 Bromoform	173	8.592	8.592	(1.103)	165135	50.0000	46.570
67 Isopropylbenzene	105	8.758	8.758	(1.125)	1725984	50.0000	49.587
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	378147	50.0000	49.471
69 1,4-Dichloro-2-butene	53	9.078	9.078	(0.905)	61383	50.0000	35.666
70 1,2,3-Trichloropropane	110	9.066	9.066	(0.903)	122719	50.0000	46.504
71 Bromobenzene	156	9.054	9.054	(0.902)	444140	50.0000	47.432
72 n-Propylbenzene	120	9.160	9.160	(0.913)	464616	50.0000	48.740
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	421424	50.0000	49.207
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	1423559	50.0000	51.135
75 4-Chlorotoluene	126	9.350	9.350	(0.932)	441783	50.0000	49.140
76 tert-Butylbenzene	119	9.645	9.645	(0.961)	1205615	50.0000	49.228
77 1,2,4-Trimethylbenzene	105	9.693	9.693	(0.966)	1441127	50.0000	51.283
78 sec-Butylbenzene	105	9.870	9.870	(0.983)	1612078	50.0000	50.624
79 4-Isopropyltoluene	119	10.012	10.012	(0.998)	1386443	50.0000	51.690

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
80 1,3-Dichlorobenzene	146	9.977	9.977	(0.994)	836352	50.0000	50.083
81 1,4-Dichlorobenzene	146	10.060	10.060	(1.002)	867078	50.0000	49.437
82 n-Butylbenzene	91	10.415	10.415	(1.038)	1079017	50.0000	51.205
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	791738	50.0000	51.498
84 1,2-Dibromo-3-chloropropane	157	11.196	11.196	(1.116)	59448	50.0000	52.617
85 1,2,4-Trichlorobenzene	180	12.036	12.036	(1.199)	486501	50.0000	56.008
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	177840	50.0000	53.656
87 Naphthalene	128	12.284	12.284	(1.224)	1096394	50.0000	56.763
88 1,2,3-Trichlorobenzene	180	12.533	12.533	(1.249)	449610	50.0000	58.953
98 Cyclohexane	56	4.640	4.640	(0.907)	535606	50.0000	43.170
143 Methyl Acetate	43	3.007	3.007	(0.588)	512191	100.000	86.870
144 Methylcyclohexane	83	5.610	5.610	(1.097)	510318	50.0000	41.651
141 1,3,5-Trichlorobenzene	180	11.420	11.420	(1.138)	530878	50.0000	54.286
149 Vinyl Acetate-86	86	3.694	3.694	(0.722)	56348	50.0000	47.403

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7803.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7803.D
 Lab Smp Id: 50NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,4

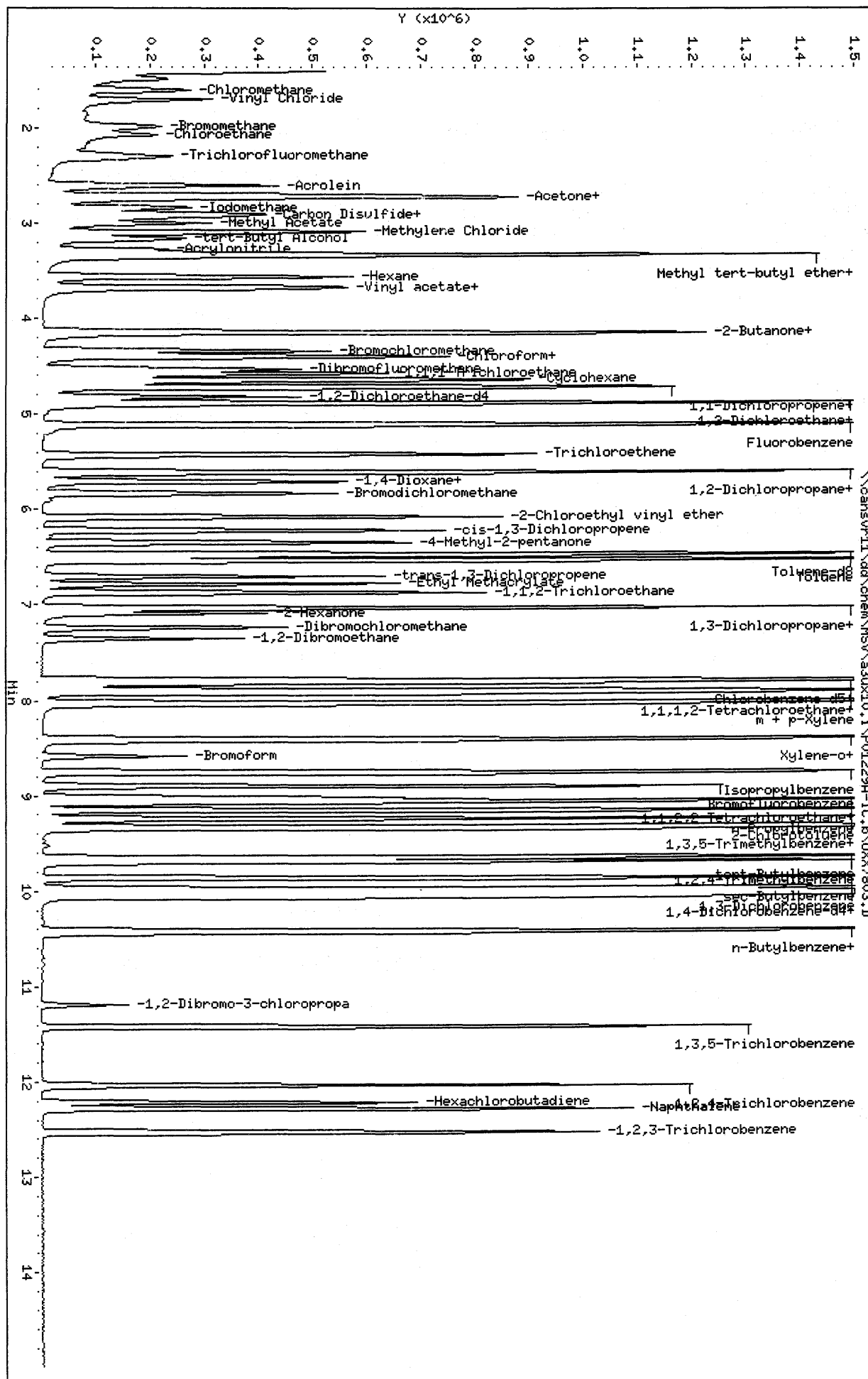
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1665231	0.00
2 Chlorobenzene-d5	1259516	629758	2519032	1259516	0.00
3 1,4-Dichlorobenze	691398	345699	1382796	691398	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PO12229A-IC.b\UXK7803.D
 Date : 29-DEC-2010 10:17
 Client ID:
 Sample Info: 50NG-IC
 Purge Volume: 5.0
 Column phase: DB624

Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7804.D
Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7804.D
Lab Smp Id: 25NG-IC
Inj Date : 29-DEC-2010 10:38
Operator : 1904
Smp Info : 25NG-IC
Misc Info : P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 a3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG					AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96		5.116	5.116	(1.000)	1538242	50.0000	
* 2 Chlorobenzene-d5	117		7.790	7.790	(1.000)	1094695	50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.038	10.038	(1.000)	586104	50.0000	
\$ 4 Dibromofluoromethane	113		4.536	4.536	(0.887)	148422	25.0000	23.879
\$ 5 1,2-Dichloroethane-d4	65		4.820	4.820	(0.942)	168703	25.0000	21.852
\$ 6 Toluene-d8	98		6.477	6.477	(0.831)	605386	25.0000	25.928
\$ 7 Bromofluorobenzene	95		8.902	8.902	(1.143)	202707	25.0000	23.474
8 Dichlorodifluoromethane	85		1.495	1.495	(0.292)	137642	25.0000	24.221
9 Chloromethane	50		1.613	1.613	(0.315)	179919	25.0000	23.594
10 Vinyl Chloride	62		1.708	1.708	(0.334)	166037	25.0000	23.422
11 Bromomethane	94		1.992	1.992	(0.389)	75262	25.0000	21.014
12 Chloroethane	64		2.075	2.075	(0.406)	97415	25.0000	22.685
13 Trichlorofluoromethane	101		2.300	2.300	(0.450)	150594	25.0000	24.681
15 Acrolein	56		2.607	2.607	(0.510)	256093	250.000	234.04
16 Acetone	43		2.726	2.726	(0.533)	85700	50.0000	42.521
17 1,1-Dichloroethene	96		2.714	2.714	(0.531)	166911	25.0000	25.798
18 Freon-113	151		2.738	2.738	(0.535)	108969	25.0000	22.651
19 Iodomethane	142		2.844	2.844	(0.556)	244551	25.0000	25.371
20 Carbon Disulfide	76		2.915	2.915	(0.570)	458190	25.0000	26.280
21 Methylene Chloride	84		3.104	3.104	(0.607)	191681	25.0000	23.604
22 Acetonitrile	41		2.951	2.951	(0.577)	114880	250.000	214.07
23 Acrylonitrile	53		3.282	3.282	(0.642)	114808	50.0000	46.879

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL ( ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.341	3.341	(0.653)	453266	25.0000	22.839
25 trans-1,2-Dichloroethene	96	3.341	3.341	(0.653)	188247	25.0000	25.342
26 Hexane	86	3.566	3.566	(0.697)	34086	25.0000	21.859
27 Vinyl acetate	43	3.708	3.708	(0.725)	199799	25.0000	21.290
28 1,1-Dichloroethane	63	3.672	3.672	(0.718)	296924	25.0000	24.535
29 tert-Butyl Alcohol	59	3.164	3.164	(0.618)	152943	500.000	407.45
30 2-Butanone	43	4.146	4.146	(0.810)	114641	50.0000	41.204
32 cis-1,2-dichloroethene	96	4.158	4.158	(0.813)	187256	25.0000	24.225
33 2,2-Dichloropropane	77	4.158	4.158	(0.813)	167285	25.0000	23.668
34 Bromochloromethane	128	4.347	4.347	(0.850)	91293	25.0000	24.795
35 Chloroform	83	4.406	4.406	(0.861)	280741	25.0000	24.192
36 Tetrahydrofuran	42	4.394	4.394	(0.859)	38374	25.0000	19.887
37 1,1,1-Trichloroethane	97	4.584	4.584	(0.896)	220218	25.0000	24.286
38 1,1-Dichloropropene	75	4.714	4.714	(0.921)	217360	25.0000	23.546
39 Carbon Tetrachloride	117	4.725	4.725	(0.924)	164279	25.0000	23.281
40 1,2-Dichloroethane	62	4.891	4.891	(0.956)	203666	25.0000	23.136
41 Benzene	78	4.891	4.891	(0.956)	706744	25.0000	24.869
42 Trichloroethene	130	5.424	5.424	(1.060)	178964	25.0000	24.214
43 1,2-Dichloropropane	63	5.613	5.613	(1.097)	160387	25.0000	25.445
44 1,4-Dioxane	88	5.719	5.719	(1.118)	39321	1250.00	893.22
45 Dibromomethane	93	5.708	5.708	(1.116)	89205	25.0000	24.197
46 Bromodichloromethane	83	5.838	5.838	(1.141)	172652	25.0000	23.436
47 2-Chloroethyl vinyl ether	63	6.086	6.086	(1.190)	159134	50.0000	45.097
48 cis-1,3-Dichloropropene	75	6.228	6.228	(1.217)	206305	25.0000	23.049
49 4-Methyl-2-pentanone	43	6.347	6.347	(1.241)	220768	50.0000	41.939
50 Toluene	91	6.536	6.536	(0.839)	710948	25.0000	25.572
51 trans-1,3-Dichloropropene	75	6.713	6.713	(0.862)	166166	25.0000	22.704
52 Ethyl Methacrylate	69	6.784	6.784	(0.871)	159836	25.0000	22.148
53 1,1,2-Trichloroethane	97	6.879	6.879	(0.883)	132338	25.0000	25.947
54 1,3-Dichloropropane	76	7.033	7.033	(0.903)	231310	25.0000	25.008
55 Tetrachloroethene	164	7.045	7.045	(0.904)	144221	25.0000	24.890
56 2-Hexanone	43	7.092	7.092	(0.910)	130823	50.0000	38.266
57 Dibromochloromethane	129	7.246	7.246	(0.930)	116503	25.0000	23.658
58 1,2-Dibromoethane	107	7.364	7.364	(0.945)	124623	25.0000	24.241
59 Chlorobenzene	112	7.814	7.814	(1.003)	456563	25.0000	24.970
60 1,1,1,2-Tetrachloroethane	131	7.885	7.885	(1.012)	141201	25.0000	24.214
61 Ethylbenzene	106	7.920	7.920	(1.017)	240915	25.0000	24.304
62 m + p-Xylene	106	8.027	8.027	(1.030)	605228	50.0000	49.152
64 Xylene-o	106	8.405	8.405	(1.079)	291085	25.0000	24.180
65 Styrene	104	8.417	8.417	(1.080)	444119	25.0000	23.506
66 Bromoform	173	8.583	8.583	(1.102)	61545	25.0000	20.502
67 Isopropylbenzene	105	8.760	8.760	(1.125)	719630	25.0000	23.874
68 1,1,2,2-Tetrachloroethane	83	9.021	9.021	(0.899)	161544	25.0000	24.886
69 1,4-Dichloro-2-butene	53	9.080	9.080	(0.905)	21099	25.0000	15.722
70 1,2,3-Trichloropropane	110	9.068	9.068	(0.903)	50533	25.0000	22.858
71 Bromobenzene	156	9.056	9.056	(0.902)	186876	25.0000	23.740
72 n-Propylbenzene	120	9.163	9.163	(0.913)	194018	25.0000	24.142
73 2-Chlorotoluene	126	9.246	9.246	(0.921)	179362	25.0000	24.751
74 1,3,5-Trimethylbenzene	105	9.328	9.328	(0.929)	588244	25.0000	24.787
75 4-Chlorotoluene	126	9.352	9.352	(0.932)	180633	25.0000	23.764
76 tert-Butylbenzene	119	9.648	9.648	(0.961)	495797	25.0000	23.936
77 1,2,4-Trimethylbenzene	105	9.695	9.695	(0.966)	597357	25.0000	24.926
78 sec-Butylbenzene	105	9.861	9.861	(0.982)	656842	25.0000	24.288
79 4-Isopropyltoluene	119	10.003	10.003	(0.996)	556228	25.0000	24.342

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
80 1,3-Dichlorobenzene	146	9.979	9.979	(0.994)	359798	25.0000	25.340
81 1,4-Dichlorobenzene	146	10.062	10.062	(1.002)	373092	25.0000	25.080
82 n-Butylbenzene	91	10.417	10.417	(1.038)	436168	25.0000	24.370
83 1,2-Dichlorobenzene	146	10.429	10.429	(1.039)	336539	25.0000	25.574
84 1,2-Dibromo-3-chloropropane	157	11.198	11.198	(1.116)	24753	25.0000	25.518
85 1,2,4-Trichlorobenzene	180	12.038	12.038	(1.199)	199277	25.0000	26.183
86 Hexachlorobutadiene	225	12.216	12.216	(1.217)	72936	25.0000	25.389
87 Naphthalene	123	12.287	12.287	(1.224)	421801	25.0000	24.798
88 1,2,3-Trichlorobenzene	180	12.535	12.535	(1.249)	183011	25.0000	27.046
98 Cyclohexane	56	4.643	4.643	(0.907)	253803	25.0000	22.817
143 Methyl Acetate	43	3.010	3.010	(0.588)	234037	50.0000	43.892
144 Methylcyclohexane	83	5.613	5.613	(1.097)	231800	25.0000	21.256
141 1,3,5-Trichlorobenzene	180	11.423	11.423	(1.138)	222547	25.0000	26.217
149 Vinyl Acetate-86	86	3.708	3.708	(0.725)	23579	25.0000	21.882

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7804.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7804.D
 Lab Smp Id: 25NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,3

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1538242	-7.63
2 Chlorobenzene-d5	1259516	629758	2519032	1094695	-13.09
3 1,4-Dichlorobenze	691398	345699	1382796	586104	-15.23

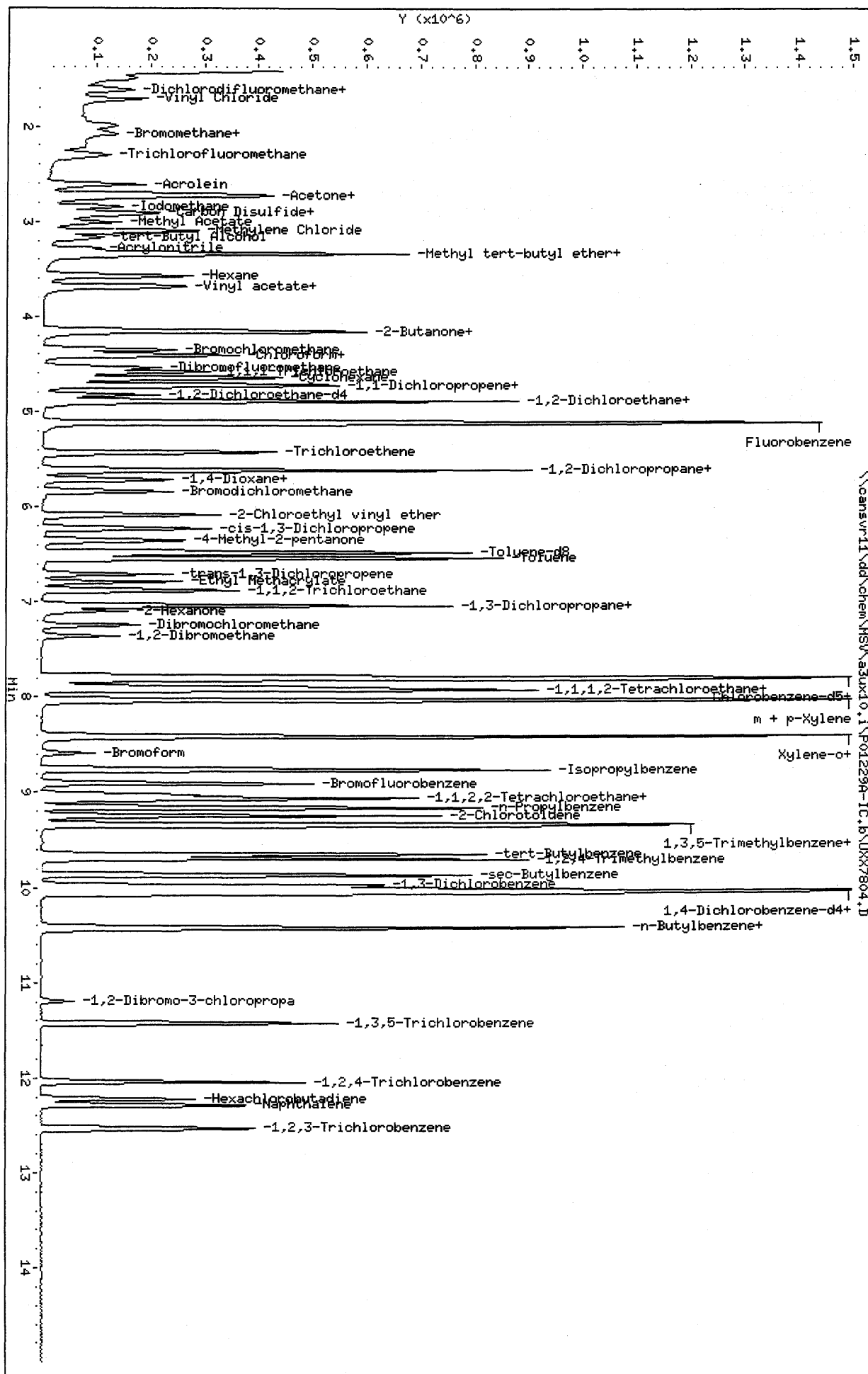
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.12	0.05
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.03
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\oansvr11\dd\chem\MSV\33ux10.1\PO1229A-IC.b\UXX7804.D
 Date : 29-DEC-2010 10:38

Client ID:
 Sample Info: 25NG-IC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.1
 Operator: 1904
 Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7805.D
Lab Smp Id: 10NG-IC
Inj Date : 29-DEC-2010 10:59
Operator : 1904
Smp Info : 10NG-IC
Misc Info : P01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 2
Comment :
Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:17 3ux10.i Quant Type: ISTD
Cal Date : 23-NOV-2010 22:30 Cal File: UXX6624.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	
*****	----	----	----	-----	-----	-----	-----	-----	-----
* 1 Fluorobenzene	96		5.114	5.114	(1.000)	1600262	50.0000		
* 2 Chlorobenzene-d5	117		7.788	7.788	(1.000)	1120612	50.0000		
* 3 1,4-Dichlorobenzene-d4	152		10.036	10.036	(1.000)	614337	50.0000		
\$ 4 Dibromofluoromethane	113		4.534	4.534	(0.887)	62516	10.0000	9.792	
\$ 5 1,2-Dichloroethane-d4	65		4.818	4.818	(0.942)	74724	10.0000	9.621	
\$ 6 Toluene-d8	98		6.474	6.474	(0.831)	238425	10.0000	9.883	
\$ 7 Bromofluorobenzene	95		8.900	8.900	(1.143)	81049	10.0000	9.281	
8 Dichlorodifluoromethane	85		1.493	1.493	(0.292)	57921	10.0000	10.014	
9 Chloromethane	50		1.611	1.611	(0.315)	79102	10.0000	10.154	
10 Vinyl Chloride	62		1.706	1.706	(0.334)	70091	10.0000	9.753	
11 Bromomethane	94		1.990	1.990	(0.389)	39130	10.0000	11.073	
12 Chloroethane	64		2.073	2.073	(0.405)	45434	10.0000	10.518	
13 Trichlorofluoromethane	101		2.297	2.297	(0.449)	64982	10.0000	10.400	
15 Acrolein	56		2.605	2.605	(0.509)	94099	100.000	84.239	
16 Acetone	43		2.735	2.735	(0.535)	41603	20.0000	20.580	
17 1,1-Dichloroethene	96		2.712	2.712	(0.530)	68212	10.0000	10.064	
18 Freon-113	151		2.735	2.735	(0.535)	44913	10.0000	9.172	
19 Iodomethane	142		2.842	2.842	(0.556)	107848	10.0000	10.705	
20 Carbon Disulfide	76		2.913	2.913	(0.570)	188558	10.0000	10.229	
21 Methylene Chloride	84		3.102	3.102	(0.607)	86129	10.0000	10.170	
22 Acetonitrile	41		2.948	2.948	(0.577)	55035	100.000	101.28	
23 Acrylonitrile	53		3.279	3.279	(0.641)	47251	20.0000	18.913	

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
24 Methyl tert-butyl ether	73	3.339	3.339	(0.653)	183549	10.0000	9.100
25 trans-1,2-Dichloroethene	96	3.339	3.339	(0.653)	77120	10.0000	9.925
26 Hexane	86	3.563	3.563	(0.697)	11572	10.0000	7.319
27 Vinyl acetate	43	3.705	3.705	(0.725)	76146	10.0000	8.112
28 1,1-Dichloroethane	63	3.670	3.670	(0.718)	122000	10.0000	9.732
29 tert-Butyl Alcohol	59	3.173	3.173	(0.621)	60714	200.000	162.08
30 2-Butanone	43	4.155	4.155	(0.813)	47896	20.0000	17.102
32 cis-1,2-dichloroethene	96	4.155	4.155	(0.813)	77223	10.0000	9.672
33 2,2-Dichloropropane	77	4.155	4.155	(0.813)	67097	10.0000	9.247
34 Bromochloromethane	128	4.344	4.344	(0.850)	37483	10.0000	9.851
35 Chloroform	83	4.404	4.404	(0.861)	115112	10.0000	9.629
36 Tetrahydrofuran	42	4.404	4.404	(0.861)	16321	10.0000	8.533
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	89213	10.0000	9.567
38 1,1-Dichloropropene	75	4.711	4.711	(0.921)	85005	10.0000	8.946
39 Carbon Tetrachloride	117	4.723	4.723	(0.924)	65539	10.0000	9.077
40 1,2-Dichloroethane	62	4.889	4.889	(0.956)	83356	10.0000	9.343
41 Benzene	78	4.889	4.889	(0.956)	287618	10.0000	9.692
42 Trichloroethene	130	5.433	5.433	(1.062)	74330	10.0000	9.739
43 1,2-Dichloropropane	63	5.611	5.611	(1.097)	64203	10.0000	9.702
44 1,4-Dioxane	88	5.717	5.717	(1.118)	12420	500.000	296.57
45 Dibromomethane	93	5.705	5.705	(1.116)	36515	10.0000	9.584
46 Bromodichloromethane	83	5.835	5.835	(1.141)	70774	10.0000	9.328
47 2-Chloroethyl vinyl ether	63	6.084	6.084	(1.190)	58933	20.0000	16.211
48 cis-1,3-Dichloropropene	75	6.226	6.226	(1.217)	77544	10.0000	8.386
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	87339	20.0000	16.582
50 Toluene	91	6.534	6.534	(0.839)	286115	10.0000	9.957
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	62673	10.0000	8.508
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	59822	10.0000	8.277
53 1,1,2-Trichloroethane	97	6.877	6.877	(0.883)	54044	10.0000	10.244
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	92606	10.0000	9.716
55 Tetrachloroethene	164	7.042	7.042	(0.904)	57962	10.0000	9.743
56 2-Hexanone	43	7.101	7.101	(0.912)	49511	20.0000	15.064
57 Dibromochloromethane	129	7.243	7.243	(0.930)	44411	10.0000	8.889
58 1,2-Dibromoethane	107	7.362	7.362	(0.945)	50068	10.0000	9.588
59 Chlorobenzene	112	7.823	7.823	(1.005)	187996	10.0000	9.998
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	57209	10.0000	9.655
61 Ethylbenzene	106	7.918	7.918	(1.017)	93772	10.0000	9.234
62 m + p-Xylene	106	8.024	8.024	(1.030)	240025	20.0000	19.012
64 Xylene-o	106	8.403	8.403	(1.079)	115630	10.0000	9.420
65 Styrene	104	8.415	8.415	(1.081)	169579	10.0000	8.832
66 Bromoform	173	8.592	8.592	(1.103)	23797	10.0000	8.020
67 Isopropylbenzene	105	8.758	8.758	(1.125)	278627	10.0000	9.058
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	66617	10.0000	9.731
69 3,4-Dichloro-2-butene	53	9.078	9.078	(0.905)	8211	10.0000	6.495
70 1,2,3-Trichloropropane	110	9.066	9.066	(0.903)	20875	10.0000	9.217
71 Bromobenzene	156	9.054	9.054	(0.902)	76205	10.0000	9.319
72 n-Propylbenzene	120	9.160	9.160	(0.913)	74819	10.0000	8.898
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	72412	10.0000	9.537
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	228614	10.0000	9.124
75 4-Chlorotoluene	126	9.350	9.350	(0.932)	74701	10.0000	9.428
76 tert-Butylbenzene	119	9.646	9.646	(0.961)	190875	10.0000	8.811
77 1,2,4-Trimethylbenzene	105	9.693	9.693	(0.966)	234416	10.0000	9.252
78 sec-Butylbenzene	105	9.870	9.870	(0.983)	256001	10.0000	8.988
79 4-Isopropyltoluene	119	10.001	10.001	(0.996)	217247	10.0000	9.032

Data File: \\cansvr11\dd\chem\MSV\A3UX10.I\P01229A-IC.B\UXX7805.D
 Report Date: 29-Dec-2010 12:17

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
80 1,3-Dichlorobenzene	146	9.977	9.977	(0.994)	148876		10.0000	9.928
81 1,4-Dichlorobenzene	146	10.060	10.060	(1.002)	160046		10.0000	10.206
82 n-Butylbenzene	91	10.415	10.415	(1.038)	167791		10.0000	8.880
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	144759		10.0000	10.356
84 1,2-Dibromo-3-chloropropane	157	11.196	11.196	(1.116)	9044		10.0000	8.739
85 1,2,4-Trichlorobenzene	180	12.036	12.036	(1.199)	81431		10.0000	9.920
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	29577		10.0000	9.649
87 Naphthalene	128	12.284	12.284	(1.224)	154210		10.0000	8.450
88 1,2,3-Trichlorobenzene	180	12.533	12.533	(1.249)	75240		10.0000	10.198
98 Cyclohexane	56	4.652	4.652	(0.910)	91448		10.0000	8.016
143 Methyl Acetate	43	3.007	3.007	(0.588)	95867		20.0000	17.738
144 Methylcyclohexane	83	5.611	5.611	(1.097)	85368		10.0000	7.712
141 1,3,5-Trichlorobenzene	180	11.420	11.420	(1.138)	92963		10.0000	10.177
149 Vinyl Acetate-86	86	3.694	3.694	(0.722)	8259		10.0000	7.574

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7805.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7805.D
 Lab Smp Id: 10NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,2

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1600262	-3.90
2 Chlorobenzene-d5	1259516	629758	2519032	1120612	-11.03
3 1,4-Dichlorobenze	691398	345699	1382796	614337	-11.15

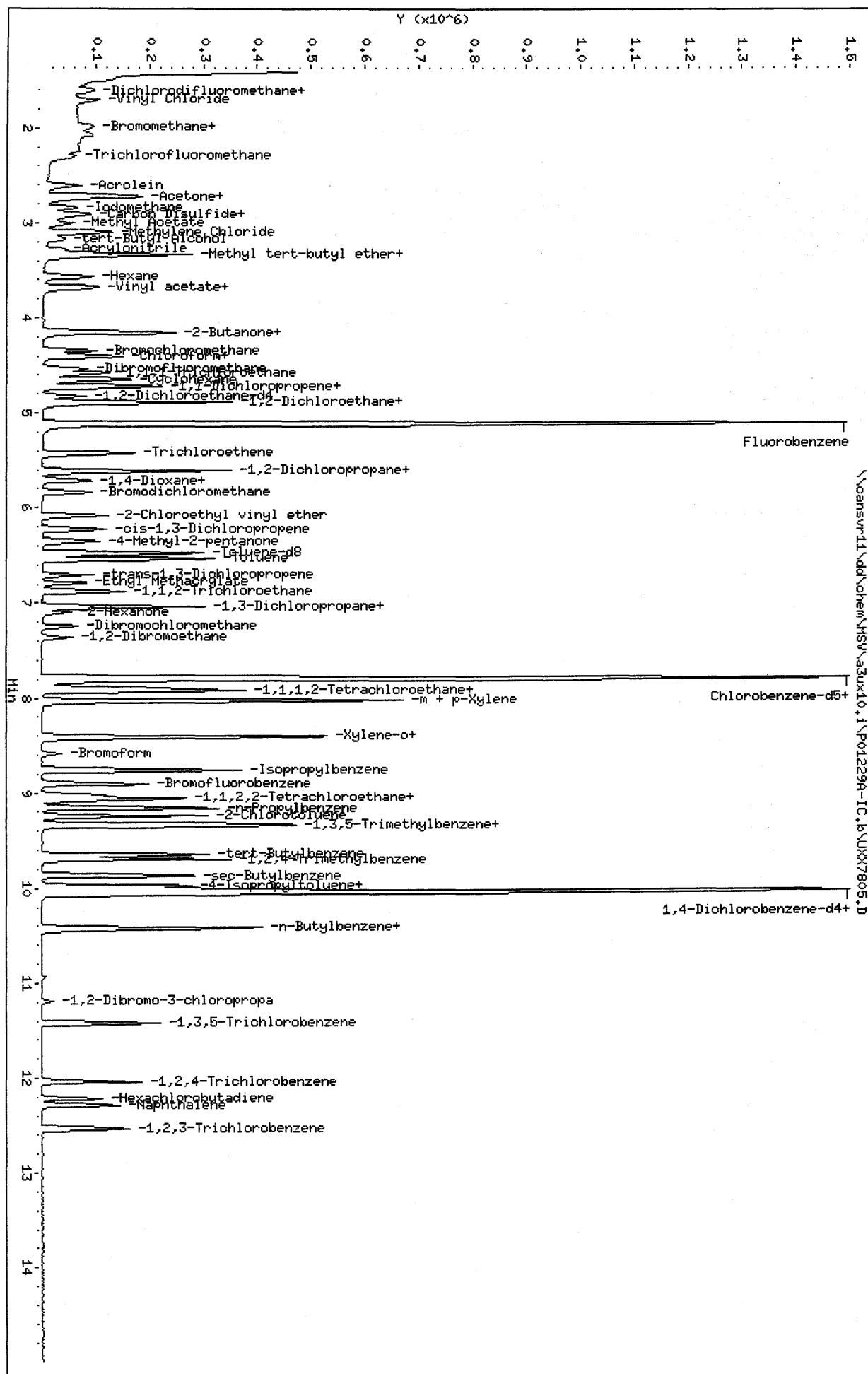
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PO12294-IC.b\UXX7805.D
 Date: 29-DEC-2010 10:59
 Client ID:

Sample Info: 10NG-IC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.1
 Operator: 1904
 Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7806.D
 Lab Smp Id: 5NG-IC
 Inj Date : 29-DEC-2010 11:20
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info : 5NG-IC
 Misc Info : P01229A-IC, 8260LLUX10, 2-8260.SUB, 1904, 1, 1
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
 Meth Date : 29-Dec-2010 12:17 3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:51 Cal File: UXX6625.D
 Als bottle: 6 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-8260.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	
*****	====		====	=====	=====	=====	=====	=====	
* 1 Fluorobenzene	96		5.113	5.113	(1.000)	1474128	50.0000		
* 2 Chlorobenzene-d5	117		7.787	7.787	(1.000)	1022167	50.0000		
* 3 1,4-Dichlorobenzene-d4	152		10.035	10.035	(1.000)	593606	50.0000		
\$ 4 Dibromofluoromethane	113		4.545	4.545	(0.889)	29629	5.00000	5.086	
\$ 5 1,2-Dichloroethane-d4	65		4.829	4.829	(0.944)	35551	5.00000	5.093	
\$ 6 Toluene-d8	98		6.473	6.473	(0.831)	112532	5.00000	5.080	
\$ 7 Bromofluorobenzene	95		8.899	8.899	(1.143)	39710	5.00000	5.060	
8 Dichlorodifluoromethane	85		1.492	1.492	(0.292)	26835	5.00000	5.098	
9 Chloromethane	50		1.610	1.610	(0.315)	34902	5.00000	4.923	
10 Vinyl Chloride	62		1.717	1.717	(0.336)	32301	5.00000	4.965	
11 Bromomethane	94		1.989	1.989	(0.389)	15274	5.00000	4.692	
12 Chloroethane	64		2.072	2.072	(0.405)	21199	5.00000	5.362	
13 Trichlorofluoromethane	101		2.296	2.296	(0.449)	28794	5.00000	4.989	
15 Acrolein	56		2.616	2.616	(0.512)	44551	50.0000	44.848	
16 Acetone	43		2.734	2.734	(0.535)	23177	10.0000	12.756	
17 1,1-Dichloroethene	96		2.711	2.711	(0.530)	33718	5.00000	5.411	
18 Freon-113	151		2.746	2.746	(0.537)	22792	5.00000	5.220	
19 Iodomethane	142		2.841	2.841	(0.556)	47615	5.00000	5.080	
20 Carbon Disulfide	76		2.912	2.912	(0.570)	89707	5.00000	5.231	
21 Methylene Chloride	84		3.101	3.101	(0.607)	42433	5.00000	5.482	
22 Acetonitrile	41		2.959	2.959	(0.579)	32948	50.0000	65.499	
23 Acrylonitrile	53		3.290	3.290	(0.644)	21464	10.0000	9.472	

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
24 Methyl tert-butyl ether	73	3.338	3.338	(0.653)	89382	5.00000	4.947
25 trans-1,2-Dichloroethene	96	3.338	3.338	(0.653)	37788	5.00000	5.301
26 Hexane	86	3.574	3.574	(0.699)	5947	5.00000	4.350
27 Vinyl acetate	43	3.704	3.704	(0.725)	34599	5.00000	4.204
28 1,1-Dichloroethane	63	3.681	3.681	(0.720)	58898	5.00000	5.138
29 tert-Butyl Alcohol	59	3.172	3.172	(0.620)	35888	100.000	109.60
30 2-Butanone	43	4.154	4.154	(0.813)	22340	10.0000	9.120
32 cis-1,2-dichloroethene	96	4.154	4.154	(0.813)	36850	5.00000	5.060
33 2,2-Dichloropropane	77	4.166	4.166	(0.815)	32300	5.00000	4.952
34 Bromochloromethane	128	4.343	4.343	(0.850)	18381	5.00000	5.292
35 Chloroform	83	4.403	4.403	(0.861)	56015	5.00000	5.134
36 Tetrahydrofuran	42	4.403	4.403	(0.861)	8586	5.00000	5.172
37 1,1,1-Trichloroethane	97	4.580	4.580	(0.896)	40777	5.00000	4.816
38 1,1-Dichloropropene	75	4.722	4.722	(0.924)	39995	5.00000	4.682
39 Carbon Tetrachloride	117	4.734	4.734	(0.926)	29709	5.00000	4.574
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	38508	5.00000	4.822
41 Benzene	78	4.888	4.888	(0.956)	141338	5.00000	5.186
42 Trichloroethene	130	5.432	5.432	(1.062)	35939	5.00000	5.152
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	31617	5.00000	5.176
44 1,4-Dioxane	88	5.728	5.728	(1.120)	6912	250.000	193.82
45 Dibromomethane	93	5.716	5.716	(1.118)	17499	5.00000	5.026
46 Bromodichloromethane	83	5.834	5.834	(1.141)	33029	5.00000	4.741
47 2-Chloroethyl vinyl ether	63	6.083	6.083	(1.190)	25546	10.0000	7.758
48 cis-1,3-Dichloropropene	75	6.225	6.225	(1.218)	35817	5.00000	4.276
49 4-Methyl-2-pentanone	43	6.355	6.355	(1.243)	37740	10.0000	8.117
50 Toluene	91	6.544	6.544	(0.840)	129043	5.00000	4.886
51 trans-1,3-Dichloropropene	75	6.710	6.710	(0.862)	28925	5.00000	4.374
52 Ethyl Methacrylate	69	6.793	6.793	(0.872)	23900	5.00000	3.724
53 1,1,2-Trichloroethane	97	6.876	6.876	(0.883)	26382	5.00000	5.423
54 1,3-Dichloropropane	76	7.029	7.029	(0.903)	44568	5.00000	5.110
55 Tetrachloroethene	164	7.041	7.041	(0.904)	28820	5.00000	5.346
56 2-Hexanone	43	7.100	7.100	(0.912)	19691	10.0000	7.030
57 Dibromochloromethane	129	7.242	7.242	(0.930)	20522	5.00000	4.531
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	22513	5.00000	4.732
59 Chlorobenzene	112	7.822	7.822	(1.005)	90846	5.00000	5.283
60 1,1,1,2-Tetrachloroethane	131	7.881	7.881	(1.012)	26964	5.00000	4.986
61 Ethylbenzene	106	7.917	7.917	(1.017)	42494	5.00000	4.638
62 m + p-Xylene	106	8.023	8.023	(1.030)	105844	10.0000	9.222
64 Xylene-o	106	8.402	8.402	(1.079)	52679	5.00000	4.731
65 Styrene	104	8.414	8.414	(1.081)	74232	5.00000	4.304
66 Bromoform	173	8.591	8.591	(1.103)	10599	5.00000	4.020
67 Isopropylbenzene	105	8.757	8.757	(1.125)	126992	5.00000	4.592
68 1,1,2,2-Tetrachloroethane	83	9.017	9.017	(0.899)	31787	5.00000	4.783
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	9637	5.00000	4.467
71 Bromobenzene	156	9.053	9.053	(0.902)	36807	5.00000	4.708
72 n-Propylbenzene	120	9.159	9.159	(0.913)	32195	5.00000	4.009
73 2-Chlorotoluene	126	9.242	9.242	(0.921)	33037	5.00000	4.511
74 1,3,5-Trimethylbenzene	105	9.325	9.325	(0.929)	101881	5.00000	4.229
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	33612	5.00000	4.427
76 tert-Butylbenzene	119	9.645	9.645	(0.961)	86699	5.00000	4.202
77 1,2,4-Trimethylbenzene	105	9.692	9.692	(0.966)	104509	5.00000	4.272
78 sec-Butylbenzene	105	9.869	9.869	(0.983)	117537	5.00000	4.304
79 4-Isopropyltoluene	119	10.011	10.011	(0.998)	99685	5.00000	4.312
80 1,3-Dichlorobenzene	146	9.976	9.976	(0.994)	75809	5.00000	5.216

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
81 1,4-Dichlorobenzene	146	10.059	10.059	(1.002)	81379	5.00000	5.340
82 n-Butylbenzene	91	10.414	10.414	(1.038)	80123	5.00000	4.422
83 1,2-Dichlorobenzene	146	10.425	10.425	(1.039)	73633	5.00000	5.382
84 1,2-Dibromo-3-chloropropane	157	11.195	11.195	(1.116)	4440	5.00000	4.446
85 1,2,4-Trichlorobenzene	180	12.035	12.035	(1.199)	43120	5.00000	5.322
86 Hexachlorobutadiene	225	12.212	12.212	(1.217)	15370	5.00000	5.138
87 Naphthalene	128	12.283	12.283	(1.224)	73756	5.00000	4.165
88 1,2,3-Trichlorobenzene	180	12.532	12.532	(1.249)	39542	5.00000	5.370
98 Cyclohexane	56	4.651	4.651	(0.910)	45384	5.00000	4.548 (a)
143 Methyl Acetate	43	3.006	3.006	(0.588)	46059	10.0000	9.627
144 Methylcyclohexane	83	5.610	5.610	(1.097)	41870	5.00000	4.349 (a)
141 1,3,5-Trichlorobenzene	180	11.419	11.419	(1.138)	48605	5.00000	5.410
149 Vinyl Acetate-86	86	3.704	3.704	(0.725)	3878	5.00000	4.021 (a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7806.D
 Report Date: 29-Dec-2010 12:17

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7806.D
 Lab Smp Id: 5NG-IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,2-8260.SUB,1904,1,1

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1474128	-11.48
2 Chlorobenzene-d5	1259516	629758	2519032	1022167	-18.84
3 1,4-Dichlorobenze	691398	345699	1382796	593606	-14.14

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.02
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\PO1229A-IC.b\UX7806.D

Date: 29-DEC-2010 11:20

Client ID:

Sample Info: 5NG-IC

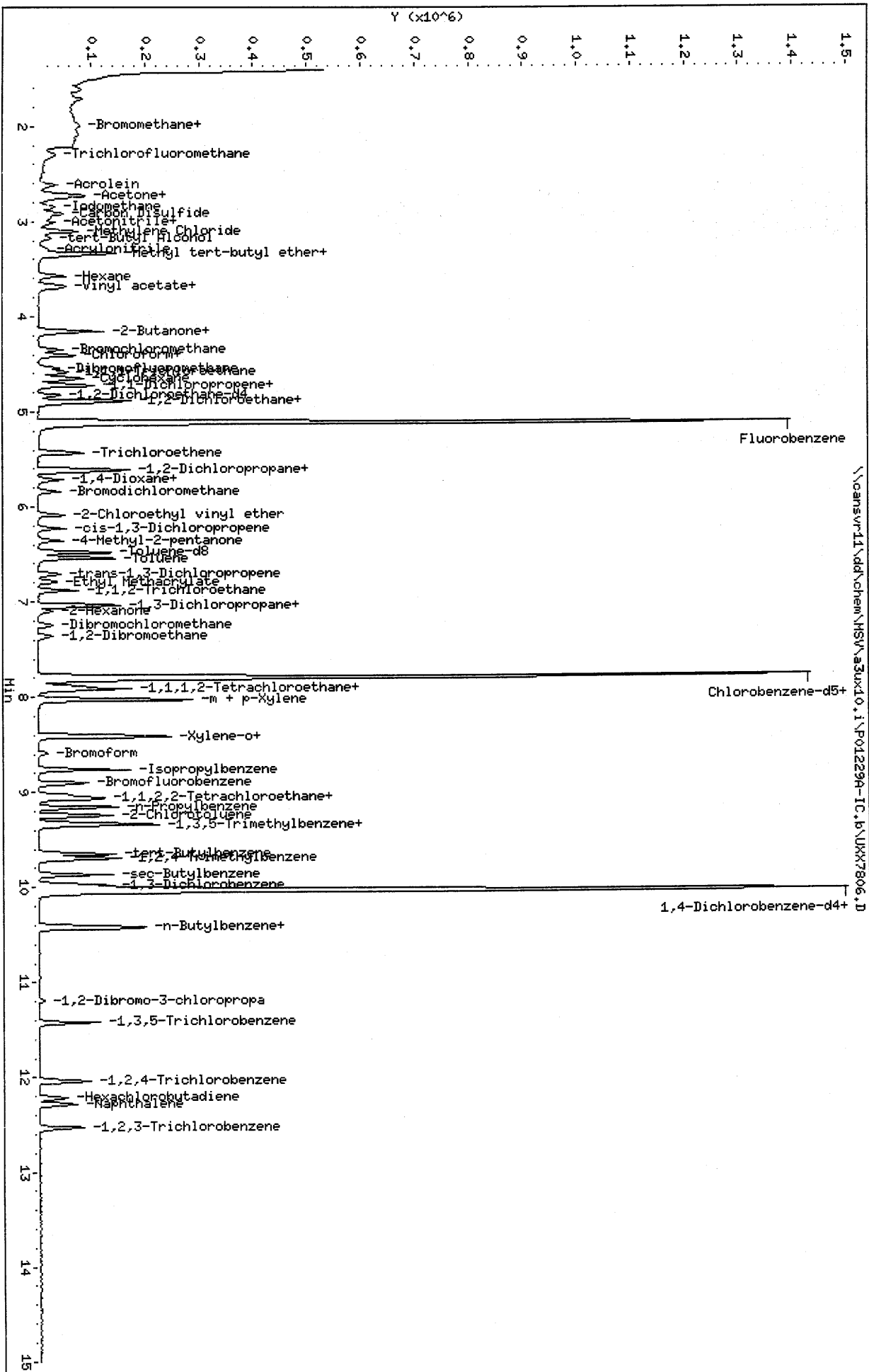
Purge Volume: 5.0

Column phase: DB624

Instrument: 33ux10.i

Operator: 1904

Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
Lab Smp Id: ICV
Inj Date : 29-DEC-2010 11:42
Operator : 1904
Smp Info : ICV
Misc Info : P01229A-IC, 8260LLUX10,, 1904, 3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:22 quayler
Cal Date : 23-NOV-2010 22:09
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: CANPMSV24

Inst ID: a3ux10.i

Quant Type: ISTD

Cal File: UXX6623.D

QC Sample: METHSPIKE

Compound Sublist: 4-8260+IX.sub

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS						(ng)	(ug/L)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Fluorobenzene	96		5.113	5.114	(1.000)	1654389	50.0000		
* 2 Chlorobenzene-d5	117		7.787	7.788	(1.000)	1177620	50.0000		
* 3 1,4-Dichlorobenzene-d4	152		10.035	10.036	(1.000)	650156	50.0000		
\$ 4 Dibromofluoromethane	113		4.533	4.534	(0.887)	298403	45.7181	9.144	
\$ 5 1,2-Dichloroethane-d4	65		4.817	4.818	(0.942)	335083	43.8594	8.772	
\$ 6 Toluene-d8	98		6.473	6.474	(0.831)	1225936	47.5869	9.517	
\$ 7 Bromofluorobenzene	95		8.899	8.901	(1.143)	439285	48.5697	9.714	
8 Dichlorodifluoromethane	85		1.492	1.493	(0.292)	269400	46.2039	9.241	
9 Chloromethane	50		1.610	1.612	(0.315)	305719	39.9468	7.989	
10 Vinyl Chloride	62		1.705	1.706	(0.334)	335251	47.0935	9.419	
11 Bromomethane	94		1.989	1.990	(0.389)	155744	44.9979	9.000	
12 Chloroethane	64		2.072	2.073	(0.405)	207019	47.4885	9.498	
13 Trichlorofluoromethane	101		2.297	2.298	(0.449)	354855	55.6507	11.130	
15 Acrolein	56		2.604	2.605	(0.509)	189792	175.219	35.044	
16 Acetone	43		2.734	2.724	(0.535)	160507	78.5169	15.703	
17 1,1-Dichloroethene	96		2.711	2.712	(0.530)	369325	52.1736	10.435	
18 Freon-113	151		2.734	2.736	(0.535)	280771	57.7110	11.542	
19 Iodomethane	142		2.841	2.842	(0.556)	645049	61.5046	12.301	
20 Carbon Disulfide	76		2.912	2.913	(0.570)	1176910	59.9760	11.995	
21 Methylene Chloride	84		3.101	3.091	(0.607)	404577	47.8384	9.568	
22 Acetonitrile	41		2.947	2.949	(0.577)	82240	143.951	28.790	
23 Acrylonitrile	53		3.279	3.280	(0.641)	361305	143.399	28.680	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.338	3.339	(0.653)	957844	48.1187	9.624
25 trans-1,2-Dichloroethene	96	3.338	3.327	(0.653)	400815	49.5721	9.914
26 Hexane	86	3.574	3.564	(0.699)	86277	59.3548	11.871
27 Vinyl acetate	43	3.716	3.694	(0.727)	1029900	118.373	23.675
28 1,1-Dichloroethane	63	3.669	3.670	(0.718)	628600	48.8572	9.771
29 tert-Butyl Alcohol	59	3.172	3.162	(0.620)	340941	927.765	185.55
30 2-Butanone	43	4.142	4.144	(0.810)	223328	87.8662	17.573
M 31 1,2-Dichloroethene (total)	96				797575	98.3216	19.664
32 cis-1,2-dichloroethene	96	4.154	4.144	(0.813)	396760	48.7495	9.750
33 2,2-Dichloropropane	77	4.166	4.155	(0.815)	363390	50.4845	10.097
34 Bromochloromethane	128	4.344	4.344	(0.850)	188292	48.1062	9.621
35 Chloroform	83	4.403	4.404	(0.861)	600205	49.2725	9.854
36 Tetrahydrofuran	42	4.391	4.392	(0.859)	80852	46.3603	9.272
37 1,1,1-Trichloroethane	97	4.580	4.582	(0.896)	468345	50.1660	10.033
38 1,1-Dichloropropene	75	4.722	4.712	(0.924)	473099	50.6138	10.123
39 Carbon Tetrachloride	117	4.722	4.724	(0.924)	366693	51.2225	10.244
40 1,2-Dichloroethane	62	4.888	4.889	(0.956)	423285	48.5139	9.703
41 Benzene	78	4.888	4.889	(0.956)	1492698	48.6071	9.721
42 Trichloroethene	130	5.432	5.422	(1.062)	380388	48.6656	9.733
43 1,2-Dichloropropane	63	5.610	5.611	(1.097)	342700	48.9798	9.796
44 1,4-Dioxane	88	Compound Not Detected.					
45 Dibromomethane	93	5.704	5.706	(1.116)	196689	50.2907	10.058
46 Bromodichloromethane	83	5.835	5.836	(1.141)	384272	49.0394	9.808
47 2-Chloroethyl vinyl ether	63	6.083	6.084	(1.190)	165397	44.3631	8.873
48 cis-1,3-Dichloropropene	75	6.225	6.226	(1.218)	454947	48.5507	9.710
49 4-Methyl-2-pentanone	43	6.355	6.356	(1.243)	459767	93.4818	18.696
50 Toluene	91	6.533	6.534	(0.839)	1535564	50.2757	10.055
51 trans-1,3-Dichloropropene	75	6.710	6.711	(0.862)	403572	53.1886	10.638
52 Ethyl Methacrylate	69	Compound Not Detected.					
53 1,1,2-Trichloroethane	97	6.876	6.877	(0.883)	278005	48.2950	9.659
54 1,3-Dichloropropane	76	7.030	7.031	(0.903)	489457	48.2418	9.648
55 Tetrachloroethene	164	7.041	7.043	(0.904)	319719	51.2808	10.256
56 2-Hexanone	43	7.101	7.090	(0.912)	277594	87.9291	17.586
57 Dibromochloromethane	129	7.243	7.244	(0.930)	255411	48.6634	9.733
58 1,2-Dibromoethane	107	7.361	7.362	(0.945)	263750	48.2994	9.660
59 Chlorobenzene	112	7.822	7.824	(1.005)	979278	48.9307	9.786
60 1,1,1,2-Tetrachloroethane	131	7.893	7.883	(1.014)	312212	49.4679	9.894
61 Ethylbenzene	106	7.917	7.918	(1.017)	528899	50.8914	10.178
62 m + p-Xylene	106	8.024	8.025	(1.030)	1331049	101.510	20.302
M 63 Xylenes (total)	106				1985541	153.014	30.603
64 Xylene-o	106	8.402	8.404	(1.079)	654492	51.5043	10.301
65 Styrene	104	8.414	8.414	(1.081)	1013581	51.7233	10.345
66 Bromoform	173	8.592	8.593	(1.103)	141561	41.6787	8.336
67 Isopropylbenzene	105	8.757	8.759	(1.125)	1615728	51.3418	10.268
68 1,1,2,2-Tetrachloroethane	83	9.018	9.019	(0.899)	334811	46.1157	9.223
69 1,4-Dichloro-2-butene	53	9.077	9.078	(0.904)	125826	101.857	20.371
70 1,2,3-Trichloropropane	110	9.077	9.066	(0.904)	109306	47.8394	9.568
71 Bromobenzene	156	9.053	9.054	(0.902)	407061	48.0161	9.603
72 n-Propylbenzene	120	9.160	9.161	(0.913)	448765	52.3773	10.475
73 2-Chlorotoluene	126	9.242	9.244	(0.921)	388950	49.0705	9.814
74 1,3,5-Trimethylbenzene	105	9.325	9.326	(0.929)	1316043	50.5757	10.115
75 4-Chlorotoluene	126	9.349	9.350	(0.932)	399707	48.7751	9.755
76 tert-Butylbenzene	119	9.645	9.646	(0.961)	1117871	50.8262	10.165
77 1,2,4-Trimethylbenzene	105	9.692	9.693	(0.966)	1354653	51.2297	10.246

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
78 sec-Butylbenzene	105	9.869	9.871	(0.983)	1502998	51.0455	10.209
79 4-Isopropyltoluene	119	10.011	10.013	(0.998)	1320204	52.6802	10.536
80 1,3-Dichlorobenzene	146	9.976	9.977	(0.994)	776293	48.3021	9.660
81 1,4-Dichlorobenzene	146	10.059	10.060	(1.002)	788526	46.8205	9.364
82 n-Butylbenzene	91	10.414	10.415	(1.038)	1036889	52.6348	10.527
83 1,2-Dichlorobenzene	146	10.426	10.427	(1.039)	728256	47.8190	9.564
84 1,2-Dibromo-3-chloropropane	157	11.195	11.196	(1.116)	51017	46.1084	9.222
85 1,2,4-Trichlorobenzene	180	12.035	12.036	(1.199)	455464	50.1791	10.036
86 Hexachlorobutadiene	225	12.212	12.214	(1.217)	164188	49.6063	9.921
87 Naphthalene	128	12.283	12.285	(1.224)	958799	42.7041	8.541
88 1,2,3-Trichlorobenzene	180	12.532	12.533	(1.249)	409561	49.2072	9.841
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	2.509	2.510	(0.491)	253212	40.7458	8.149
91 3-Chloropropene	76	2.912	3.007	(0.570)	1176910	298.715	59.743
92 Isopropyl Ether	87	3.728	3.729	(0.729)	319588	46.1646	9.233
93 2-Chloro-1,3-butadiene	53	3.563	3.764	(0.697)	12342	1.07843	0.2157
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.142	4.202	(0.810)	222544	41.0017	8.200
96 Methacrylonitrile	41	4.391	4.320	(0.859)	47802	11.8989	2.380
97 Isobutanol	41	4.758	4.758	(0.611)	360037	2072.05	414.41
99 n-Butanol	56	5.113	5.315	(0.657)	9054	66.8155	13.363
100 Methyl Methacrylate	41	5.610	5.693	(1.097)	395296	81.5660	16.313
101 2-Nitropropane	41	6.083	6.013	(1.190)	8806	11.1839	2.237
103 Cyclohexanone	55	8.840	8.841	(0.881)	107238	448.364	89.673
98 Cyclohexane	56	4.651	4.641	(0.910)	589296	54.2986	10.860
143 Methyl Acetate	43	3.006	3.008	(0.588)	233574	45.6087	9.122
144 Methylcyclohexane	83	5.610	5.611	(1.097)	570399	55.2819	11.056
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
149 Vinyl Acetate-86	86	3.705	3.694	(0.725)	66345	64.0454	12.809
153 t-Butyl ethyl ether	59	Compound Not Detected.					
154 t-Amyl methyl ether	73	4.888	4.971	(0.956)	24548	1.17680	0.2354 (a)
155 1,2,3-Trimethylbenzene	105	10.106	10.107	(1.007)	1338411	56.4276	11.286

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
Report Date: 29-Dec-2010 12:23

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
Lab Smp Id: ICV
Inj Date : 29-DEC-2010 11:42
Operator : 1904
Smp Info : ICV
Misc Info : P01229A-IC, 8260LLUX10,,1904,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
Meth Date : 29-Dec-2010 12:22 quayler
Cal Date : 23-NOV-2010 22:09
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: CANPMSV24
Inst ID: a3ux10.i
Quant Type: ISTD
Cal File: UXX6623.D
QC Sample: METHSPIKE
Compound Sublist: 4-8260+IX.sub

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\UXX7807.D
 Report Date: 29-Dec-2010 12:23

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX7807.D
 Lab Smp Id: ICV
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 29-DEC-2010
 Calibration Time: 10:17

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,,1904,3

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1665231	832616	3330462	1654389	-0.65
2 Chlorobenzene-d5	1259516	629758	2519032	1177620	-6.50
3 1,4-Dichlorobenze	691398	345699	1382796	650156	-5.97

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.02
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00932
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV Operator: 1904
 Level: LOW SampleType: METHSPIKE
 Data Type: MS DATA Quant Type: ISTD
 SpikeList File: DOD-ck.spk
 Sublist File: 4-8260+IX.sub
 Method File: \\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\8260LLUX10.m
 Misc Info: P01229A-IC,8260LLUX10,,1904,3

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
17 1,1-Dichloroethene	10.000	10.435	104.35	45-155
42 Trichloroethene	10.000	9.733	97.33	45-155
59 Chlorobenzene	10.000	9.786	97.86	45-155
50 Toluene	10.000	10.055	100.55	45-155
41 Benzene	10.000	9.721	97.21	45-155
16 Acetone	20.000	15.703	78.52	45-155
20 Carbon Disulfide	10.000	11.995	119.95	45-155
9 Chloromethane	10.000	7.989	79.89	45-155
11 Bromomethane	10.000	9.000	90.00	45-155
10 Vinyl Chloride	10.000	9.419	94.19	45-155
12 Chloroethane	10.000	9.498	94.98	45-155
21 Methylene Chloride	10.000	9.568	95.68	45-155
28 1,1-Dichloroethane	10.000	9.771	97.71	45-155
M 31 1,2-Dichloroethene	20.000	19.664	98.32	45-155
35 Chloroform	10.000	9.854	98.54	45-155
40 1,2-Dichloroethane	10.000	9.703	97.03	45-155
30 2-Butanone	20.000	17.573	87.87	45-155
37 1,1,1-Trichloroeth	10.000	10.033	100.33	45-155
39 Carbon Tetrachlori	10.000	10.244	102.45	45-155
46 Bromodichlorometha	10.000	9.808	98.08	45-155
43 1,2-Dichloropropan	10.000	9.796	97.96	45-155
48 cis-1,3-Dichloropr	10.000	9.710	97.10	45-155
54 1,3-Dichloropropan	10.000	9.648	96.48	45-155
57 Dibromochlorometha	10.000	9.733	97.33	45-155
53 1,1,2-Trichloroeth	10.000	9.659	96.59	45-155
51 trans-1,3-Dichloro	10.000	10.638	106.38	45-155
66 Bromoform	10.000	8.336	83.36	45-155
49 4-Methyl-2-pentano	20.000	18.696	93.48	45-155
56 2-Hexanone	20.000	17.586	87.93	45-155
55 Tetrachloroethene	10.000	10.256	102.56	45-155
68 1,1,2,2-Tetrachlor	10.000	9.223	92.23	45-155
61 Ethylbenzene	10.000	10.178	101.78	45-155
65 Styrene	10.000	10.345	103.45	45-155
M 63 Xylenes (total)	30.000	30.603	102.01	45-155
32 cis-1,2-dichloroet	10.000	9.750	97.50	45-155
25 trans-1,2-Dichloro	10.000	9.914	99.14	45-155
8 Dichlorodifluorome	10.000	9.241	92.41	45-155
13 Trichlorofluoromet	10.000	11.130	111.30	45-155
70 1,2,3-Trichloropro	10.000	9.568	95.68	45-155
18 Freon-113	10.000	11.542	115.42	45-155

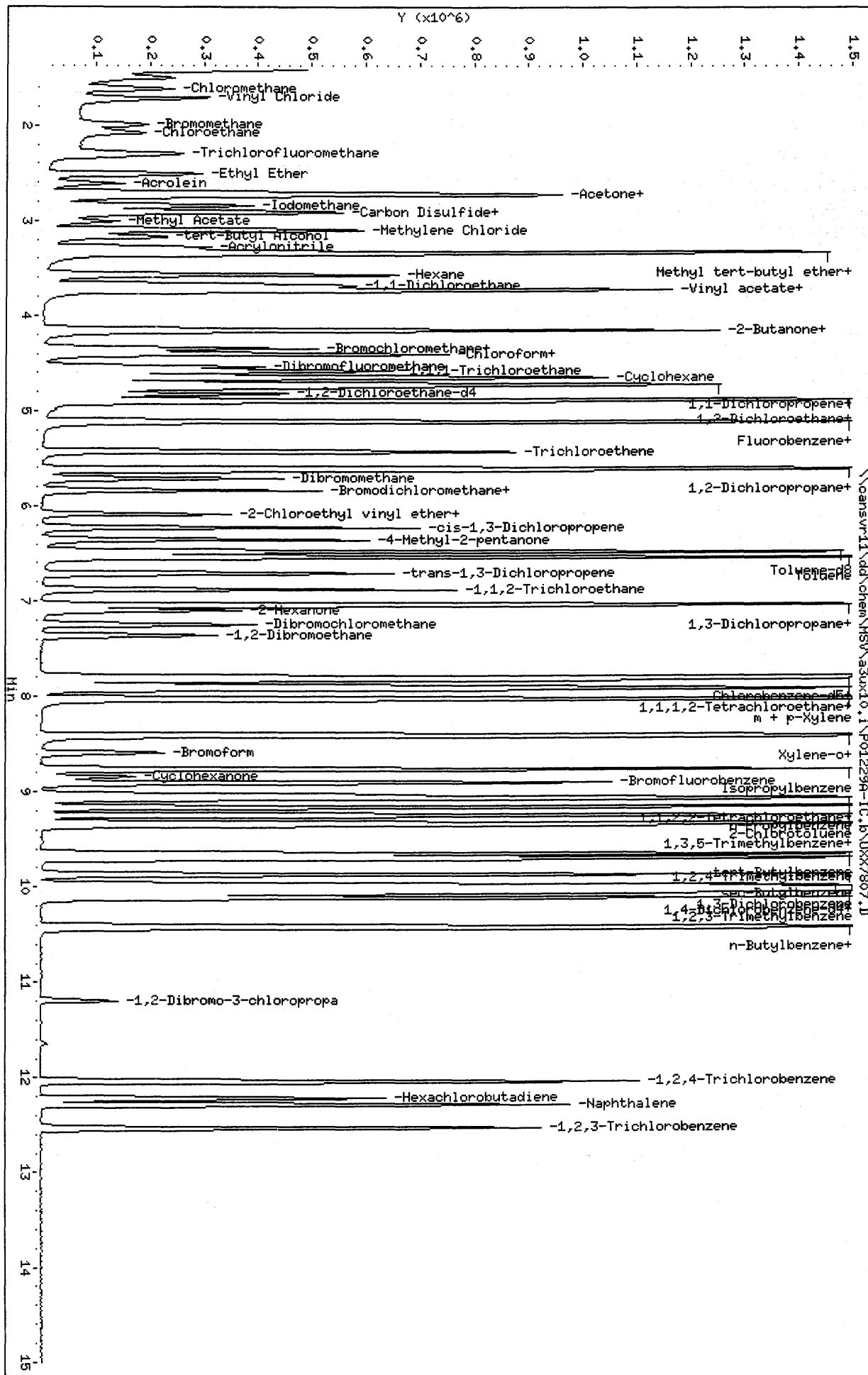
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
24 Methyl tert-butyl	10.000	9.624	96.24	45-155
58 1,2-Dibromoethane	10.000	9.660	96.60	45-155
67 Isopropylbenzene	10.000	10.268	102.68	45-155
80 1,3-Dichlorobenzen	10.000	9.660	96.60	45-155
81 1,4-Dichlorobenzen	10.000	9.364	93.64	45-155
83 1,2-Dichlorobenzen	10.000	9.564	95.64	45-155
84 1,2-Dibromo-3-chlo	10.000	9.222	92.22	45-155
85 1,2,4-Trichloroben	10.000	10.036	100.36	45-155
98 Cyclohexane	10.000	10.860	108.60	45-155
143 Methyl Acetate	10.000	9.122	91.22	45-155
144 Methylcyclohexane	10.000	11.056	110.56	45-155
71 Bromobenzene	10.000	9.603	96.03	45-155
34 Bromochloromethane	10.000	9.621	96.21	45-155
82 n-Butylbenzene	10.000	10.527	105.27	45-155
78 sec-Butylbenzene	10.000	10.209	102.09	45-155
76 tert-Butylbenzene	10.000	10.165	101.65	45-155
73 2-Chlorotoluene	10.000	9.814	98.14	45-155
75 4-Chlorotoluene	10.000	9.755	97.55	45-155
45 Dibromomethane	10.000	10.058	100.58	45-155
33 2,2-Dichloropropan	10.000	10.097	100.97	45-155
38 1,1-Dichloropropen	10.000	10.123	101.23	45-155
86 Hexachlorobutadien	10.000	9.921	99.21	45-155
19 Iodomethane	10.000	12.301	123.01	45-155
92 Isopropyl Ether	10.000	9.233	92.33	45-155
79 4-Isopropyltoluene	10.000	10.536	105.36	45-155
87 Naphthalene	10.000	8.541	85.41	45-155
72 n-Propylbenzene	10.000	10.475	104.75	45-155
60 1,1,1,2-Tetrachlor	10.000	9.894	98.94	45-155
88 1,2,3-Trichloroben	10.000	9.841	98.41	45-155
77 1,2,4-Trimethylben	10.000	10.246	102.46	45-155
74 1,3,5-Trimethylben	10.000	10.115	101.15	45-155
149 Vinyl Acetate-86	10.000	12.809	128.09	45-155
62 m + p-Xylene	20.000	20.302	101.51	45-155
64 Xylene-o	10.000	10.301	103.01	45-155

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Dibromofluorometha	10.000	9.144	91.44	75-121
\$ 5 1,2-Dichloroethane	10.000	8.772	87.72	63-129
\$ 6 Toluene-d8	10.000	9.517	95.17	74-115
\$ 7 Bromofluorobenzene	10.000	9.714	97.14	66-117

Data File: \\oasvr11\dd\chem\MSV\33ux10.i\POL229A-IC.b\UXX7807.D
 Date : 29-DEC-2010 11:42
 Client ID:
 Sample Info: ICV
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i

Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6200.D
Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6200.D
Lab Smp Id: 200NG-A9IC
Inj Date : 14-NOV-2010 19:17
Operator : 1904
Smp Info : 200NG-A9IC
Misc Info : P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\8260LLUX10.m
Meth Date : 15-Nov-2010 08:41 3ux10.i Quant Type: ISTD
Cal Date : 14-NOV-2010 21:03 Cal File: UXX6205.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-IX.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	----	----	-----	-----	-----	-----	-----
* 1 Fluorobenzene	96	5.108	5.108	(1.000)	1619753	50.0000	
* 2 Chlorobenzene-d5	117	7.794	7.794	(1.000)	1168820	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	629422	50.0000	
14 Dichlorofluoromethane	67	2.233	2.233	(0.437)	2353019	200.000	197.93
89 Ethyl Ether	59	2.505	2.505	(0.490)	1207481	200.000	198.46
91 3-Chloropropene	76	3.002	3.002	(0.588)	821128	200.000	212.87
92 Isopropyl Ether	87	3.735	3.735	(0.731)	7066382	1000.00	1042.6
93 2-Chloro-1,3-butadiene	53	3.759	3.759	(0.736)	2329226	200.000	207.88
94 Propionitrile	54	4.185	4.185	(0.819)	356128	400.000	447.30
95 Ethyl Acetate	43	4.197	4.197	(0.822)	2232153	400.000	420.05
96 Methacrylonitrile	41	4.315	4.315	(0.845)	803818	200.000	204.36
97 Isobutanol	41	4.753	4.753	(0.610)	665629	4000.00	3859.6
99 n-Butanol	56	5.309	5.309	(0.681)	587297	4000.00	4366.7
100 Methyl Methacrylate	41	5.688	5.688	(1.113)	1016536	200.000	214.24
101 2-Nitropropane	41	6.019	6.019	(1.178)	604717	400.000	493.82
103 Cyclohexanone	55	8.835	8.835	(0.880)	482303	2000.00	2082.9
146 2-Methylnaphthalene	142	13.568	13.568	(1.351)	1814371	400.000	401.42
153 t-Butyl ethyl ether	59	4.031	4.031	(0.789)	4610687	200.000	208.52
154 t-Amyl methyl ether	73	4.978	4.978	(0.975)	4272276	200.000	209.19
155 1,2,3-Trimethylbenzene	105	10.113	10.113	(1.007)	4946566	200.000	215.42

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6200.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6200.D
 Lab Smp Id: 200NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,6

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1619753	5.72
2 Chlorobenzene-d5	1087660	543830	2175320	1168820	7.46
3 1,4-Dichlorobenze	606796	303398	1213592	629422	3.73

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.11	-0.20
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33ux10.1\1011144-1C.b\UXX6200.D

Date : 14-NOV-2010 19:17

Client ID:

Sample Info: 200NG-A91C

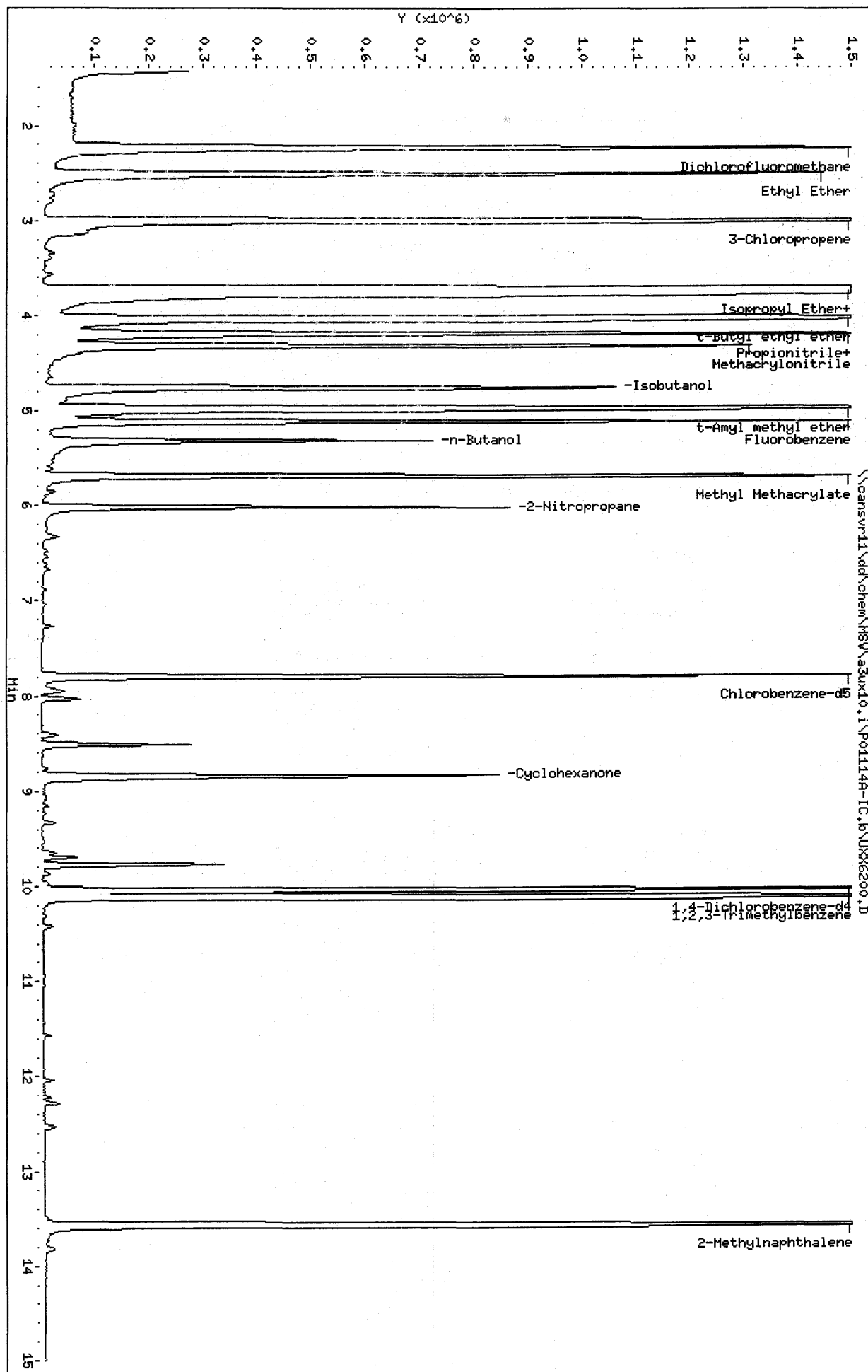
Purge Volume: 5.0

Column phase: DB624

Instrument: 33ux10.1

Operator: 1904

Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6201.D
 Lab Smp Id: 100NG-A9IC
 Inj Date : 14-NOV-2010 19:38
 Operator : 1904
 Smp Info : 100NG-A9IC
 Misc Info : P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,5
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\8260LLUX10.m
 Meth Date : 15-Nov-2010 08:41 3ux10.i Quant Type: ISTD
 Cal Date : 14-NOV-2010 19:17 Cal File: UXX6200.D
 Als bottle: 9 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-IX.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96	5.119	5.119	(1.000)	1484623	50.0000	
* 2 Chlorobenzene-d5	117	7.793	7.793	(1.000)	1068111	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.041	10.041	(1.000)	597077	50.0000	
14 Dichlorofluoromethane	67	2.243	2.243	(0.438)	1089461	100.000	99.985
89 Ethyl Ether	59	2.516	2.516	(0.491)	572748	100.000	102.70
91 3-Chloropropene	76	3.001	3.001	(0.586)	373210	100.000	105.56
92 Isopropyl Ether	87	3.734	3.734	(0.730)	3255735	500.000	524.07
93 2-Chloro-1,3-butadiene	53	3.758	3.758	(0.734)	1063771	100.000	103.58
94 Propionitrile	54	4.184	4.184	(0.817)	154280	200.000	211.42
95 Ethyl Acetate	43	4.196	4.196	(0.820)	1025948	200.000	210.64
96 Methacrylonitrile	41	4.326	4.326	(0.845)	366446	100.000	101.65
97 Isobutanol	41	4.764	4.764	(0.611)	315616	2000.00	2002.6
99 n-Butanol	56	5.320	5.320	(0.683)	274323	2000.00	2232.0
100 Methyl Methacrylate	41	5.687	5.687	(1.111)	459199	100.000	105.59
101 2-Nitropropane	41	6.018	6.018	(1.176)	258138	200.000	229.99
103 Cyclohexanone	55	8.834	8.834	(0.880)	232481	1000.00	1058.4
146 2-Methylnaphthalene	142	13.567	13.567	(1.351)	924077	200.000	215.52
153 t-Butyl ethyl ether	59	4.030	4.030	(0.787)	2128544	100.000	105.02
154 t-Amyl methyl ether	73	4.977	4.977	(0.972)	1969271	100.000	105.20
155 1,2,3-Trimethylbenzene	105	10.112	10.112	(1.007)	2332602	100.000	107.08

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6201.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6201.D
 Lab Smp Id: 100NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,5

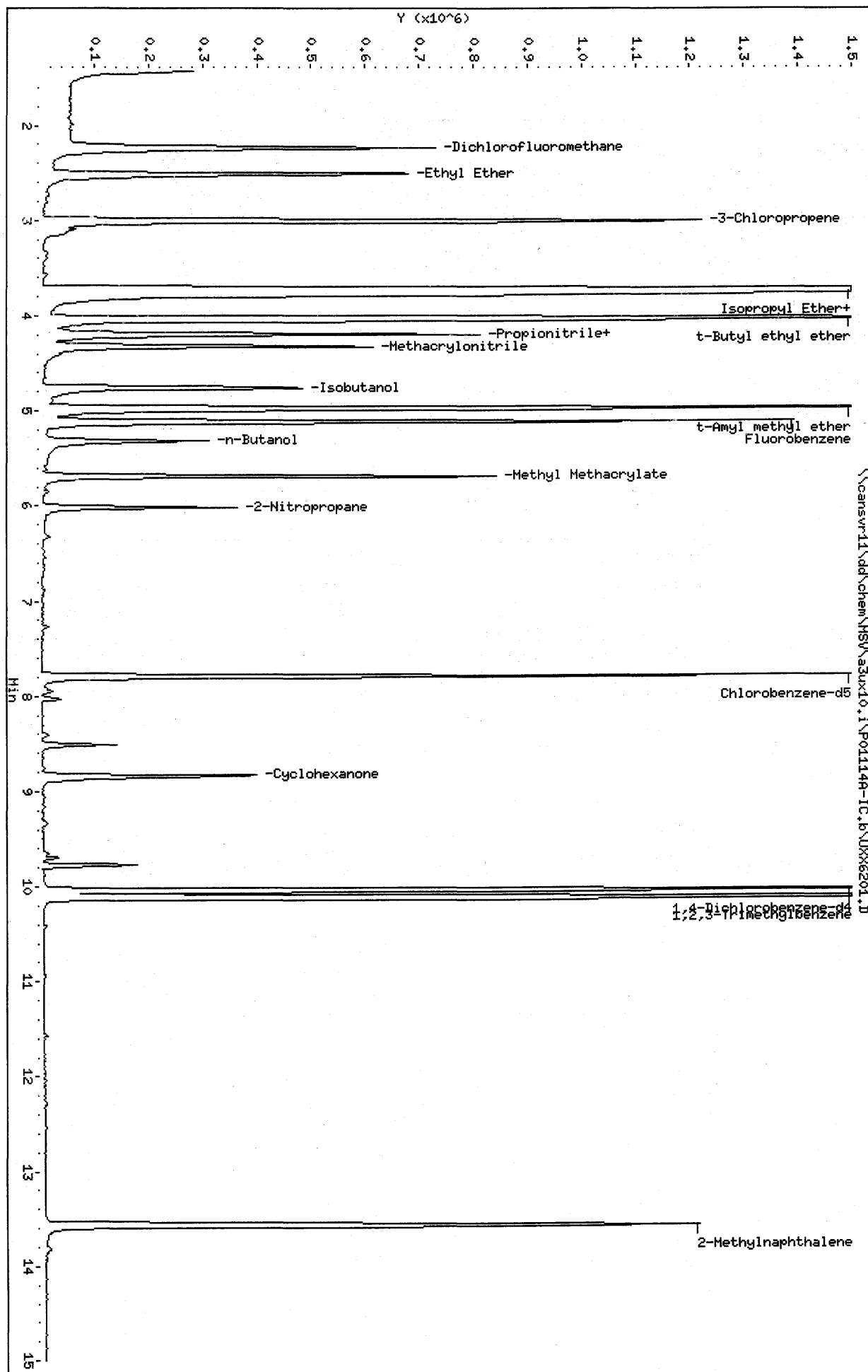
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1484623	-3.10
2 Chlorobenzene-d5	1087660	543830	2175320	1068111	-1.80
3 1,4-Dichlorobenze	606796	303398	1213592	597077	-1.60

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.01
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\PO11144-IC.b\UXK6201.D
 Date : 14-NOV-2010 19:38
 Client ID:
 Sample Info: 100NG-A91C
 Purge Volume: 5.0
 Column Phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6202.D
 Lab Smp Id: 50NG-A9IC
 Inj Date : 14-NOV-2010 19:59
 Operator : 1904
 Smp Info : 50NG-A9IC
 Misc Info : P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,4
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\8260LLUX10.m
 Meth Date : 15-Nov-2010 08:41 3ux10.i Quant Type: ISTD
 Cal Date : 14-NOV-2010 21:03 Cal File: UXX6205.D
 Als bottle: 10 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-IX.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96	5.118	5.118	(1.000)	1532110	50.0000	
* 2 Chlorobenzene-d5	117	7.792	7.792	(1.000)	1087660	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.041	10.041	(1.000)	606796	50.0000	
14 Dichlorofluoromethane	67	2.231	2.231	(0.436)	556052	50.0000	49.450
89 Ethyl Ether	59	2.503	2.503	(0.489)	283665	50.0000	49.289
91 3-Chloropropene	76	3.000	3.000	(0.586)	183911	50.0000	50.404
92 Isopropyl Ether	87	3.734	3.734	(0.730)	1585361	250.000	247.28
93 2-Chloro-1,3-butadiene	53	3.757	3.757	(0.734)	530550	50.0000	50.059
94 Propionitrile	54	4.183	4.183	(0.817)	72437	100.000	96.187
95 Ethyl Acetate	43	4.195	4.195	(0.820)	463627	100.000	92.236
96 Methacrylonitrile	41	4.325	4.325	(0.845)	177117	50.0000	47.607
97 Isobutanol	41	4.763	4.763	(0.611)	156729	1000.00	976.60
99 n-Butanol	56	5.319	5.319	(0.683)	127173	1000.00	1016.1
100 Methyl Methacrylate	41	5.686	5.686	(1.111)	214042	50.0000	47.691
101 2-Nitropropane	41	6.017	6.017	(1.176)	112061	100.000	96.746
103 Cyclohexanone	55	8.834	8.834	(0.880)	110857	500.000	496.62
146 2-Methylnaphthalene	142	13.567	13.567	(1.351)	466262	100.000	107.00
153 t-Butyl ethyl ether	59	4.030	4.030	(0.787)	1044174	50.0000	49.924
154 t-Amyl methyl ether	73	4.976	4.976	(0.972)	956751	50.0000	49.526
155 1,2,3-Trimethylbenzene	105	10.112	10.112	(1.007)	1089916	50.0000	49.234

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6202.D
Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux10.i
Lab File ID: UXX6202.D
Lab Smp Id: 50NG-A9IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1904

Calibration Date: 14-NOV-2010
Calibration Time: 19:59

Level: LOW
Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,4

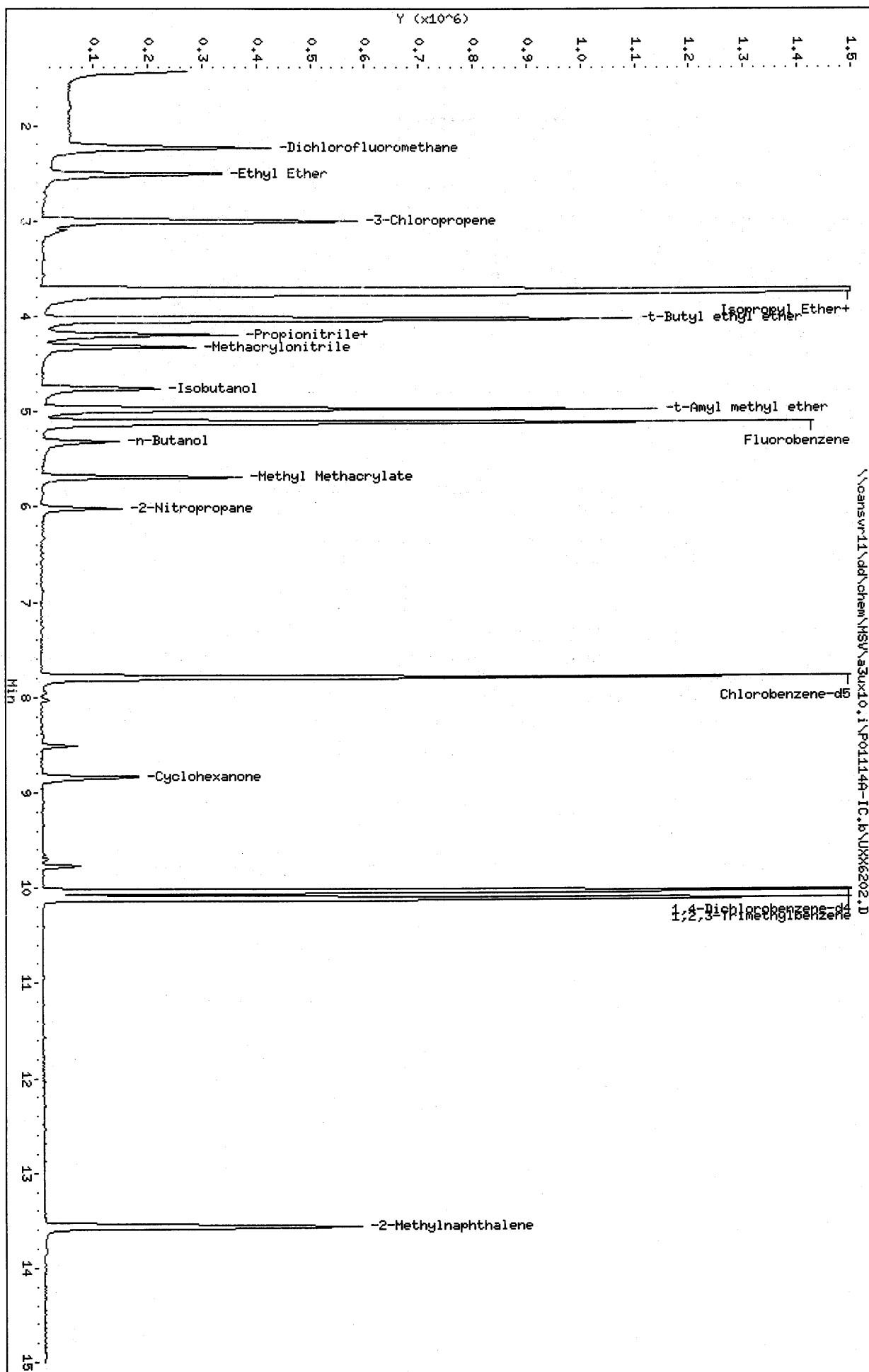
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1532110	0.00
2 Chlorobenzene-d5	1087660	543830	2175320	1087660	0.00
3 1,4-Dichlorobenze	606796	303398	1213592	606796	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\1011144-IC.b\UXK6202.D
 Date: 14-NOV-2010 19:59
 Client ID:
 Sample Info: 50NG-A91C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6203.D
 Lab Smp Id: 25NG-A9IC
 Inj Date : 14-NOV-2010 20:21
 Operator : 1904
 Smp Info : 25NG-A9IC
 Misc Info : P01114A-IC, 8260LLUX10, 3-IX.SUB, 1904, 1, 3
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\8260LLUX10.m
 Meth Date : 15-Nov-2010 08:41 3ux10.i Quant Type: ISTD
 Cal Date : 14-NOV-2010 19:38 Cal File: UXX6201.D
 Als bottle: 11 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-IX.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96	5.119	5.119	(1.000)	1496438	50.0000	
* 2 Chlorobenzene-d5	117	7.793	7.793	(1.000)	1059265	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.041	10.041	(1.000)	606349	50.0000	
14 Dichlorofluoromethane	67	2.231	2.231	(0.436)	282261	25.0000	25.700
89 Ethyl Ether	59	2.504	2.504	(0.489)	143383	25.0000	25.508
91 3-Chloropropene	76	3.001	3.001	(0.586)	92573	25.0000	25.976
92 Isopropyl Ether	87	3.734	3.734	(0.730)	782760	125.000	125.00
93 2-Chloro-1,3-butadiene	53	3.758	3.758	(0.734)	260601	25.0000	25.174
94 Propionitrile	54	4.184	4.184	(0.817)	36924	50.0000	50.199
95 Ethyl Acetate	43	4.196	4.196	(0.820)	236531	50.0000	48.178
96 Methacrylonitrile	41	4.314	4.314	(0.843)	92769	25.0000	25.529
97 Isobutanol	41	4.764	4.764	(0.611)	81458	500.000	521.18
99 n-Butanol	56	5.320	5.320	(0.683)	63892	500.000	524.18
100 Methyl Methacrylate	41	5.687	5.687	(1.111)	108154	25.0000	24.672
101 2-Nitropropane	41	6.018	6.018	(1.176)	49870	50.0000	44.081
103 Cyclohexanone	55	8.834	8.834	(0.880)	55402	250.000	248.37
146 2-Methylnaphthalene	142	13.567	13.567	(1.351)	210207	50.0000	48.277
153 t-Butyl ethyl ether	59	4.030	4.030	(0.787)	513051	25.0000	25.115
154 t-Amyl methyl ether	73	4.977	4.977	(0.972)	469844	25.0000	24.901
155 1,2,3-Trimethylbenzene	105	10.112	10.112	(1.007)	544125	25.0000	24.598

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6203.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6203.D
 Lab Smp Id: 25NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,3

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1496438	-2.33
2 Chlorobenzene-d5	1087660	543830	2175320	1059265	-2.61
3 1,4-Dichlorobenze	606796	303398	1213592	606349	-0.07

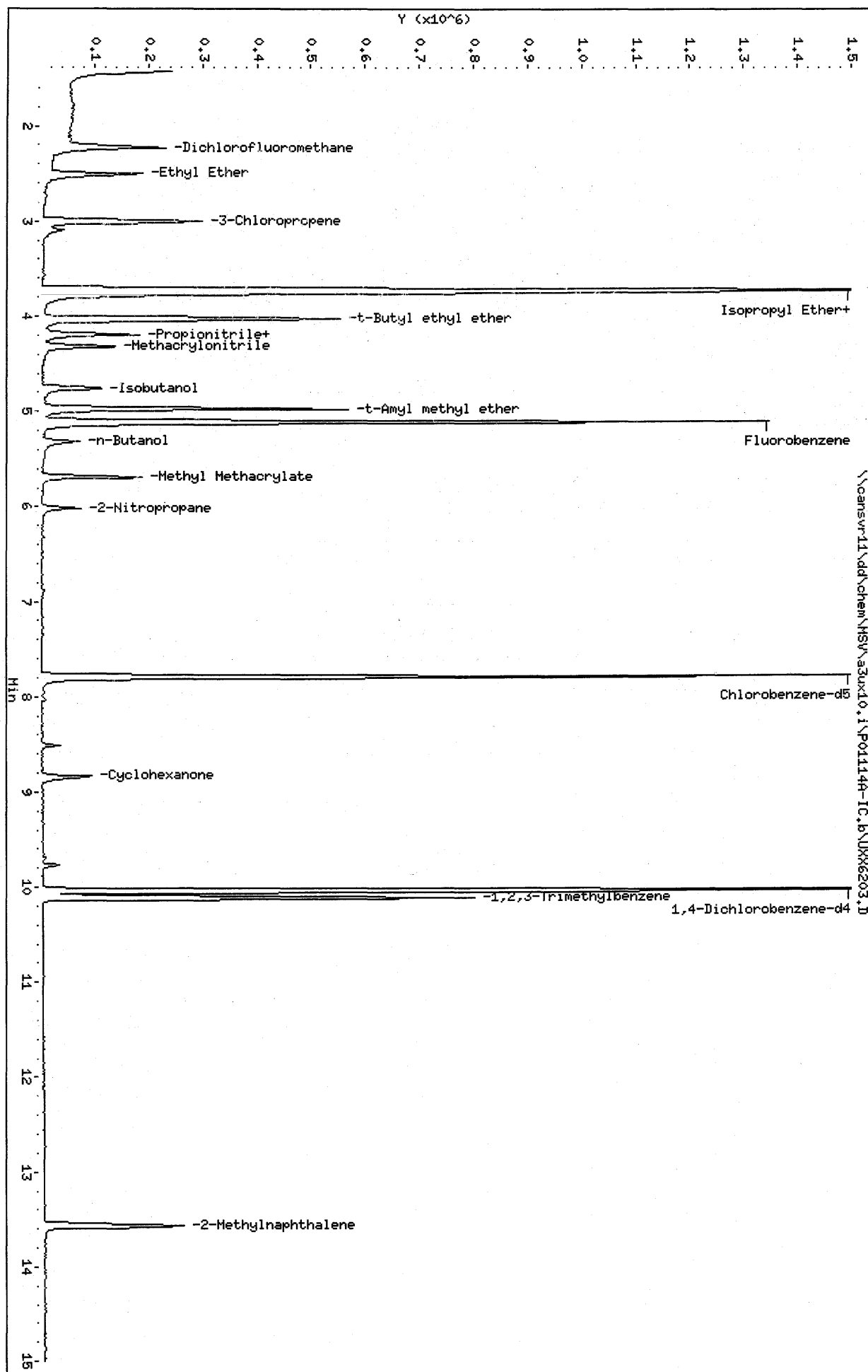
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.01
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.1\PO11144-IC.b\UXK6203.D
 Date : 14-NOV-2010 20:24

Client ID:
 Sample Info: 25NG-A91C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.1
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6204.D
Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6204.D
Lab Smp Id: 10NG-A9IC
Inj Date : 14-NOV-2010 20:42
Operator : 1904
Smp Info : 10NG-A9IC
Misc Info : P01114A-IC, 8260LLUX10, 3-IX.SUB, 1904, 1, 2
Comment :
Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\8260LLUX10.m
Meth Date : 15-Nov-2010 08:41 3ux10.i Quant Type: ISTD
Cal Date : 14-NOV-2010 20:21 Cal File: UXX6203.D
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-IX.SUB
Target Version: 4.14
Processing Host: CANPMSV24

Concentration Formula: $\text{Amt} * \text{DF} * 1/\text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96	5.119	5.119	(1.000)	1474073	50.0000	
* 2 Chlorobenzene-d5	117	7.793	7.793	(1.000)	1076524	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	639126	50.0000	
14 Dichlorofluoromethane	67	2.244	2.244	(0.438)	108549	10.0000	10.033
89 Ethyl Ether	59	2.516	2.516	(0.492)	54083	10.0000	9.767
91 3-Chloropropene	76	3.001	3.001	(0.586)	33227	10.0000	9.465
92 Isopropyl Ether	87	3.735	3.735	(0.730)	301086	50.0000	48.812
93 2-Chloro-1,3-butadiene	53	3.758	3.758	(0.734)	98652	10.0000	9.674
94 Propionitrile	54	4.184	4.184	(0.817)	14342	20.0000	19.794
95 Ethyl Acetate	43	4.196	4.196	(0.820)	94230	20.0000	19.485
96 Methacrylonitrile	41	4.326	4.326	(0.845)	37253	10.0000	10.407
97 Isobutanol	41	4.752	4.752	(0.610)	34005	200.000	214.08
99 n-Butanol	56	5.320	5.320	(0.683)	22674	200.000	183.04
100 Methyl Methacrylate	41	5.687	5.687	(1.111)	42444	10.0000	9.829
101 2-Nitropropane	41	6.018	6.018	(1.176)	20644	20.0000	18.524
103 Cyclohexanone	55	8.835	8.835	(0.880)	21872	100.000	93.025
146 2-Methylnaphthalene	142	13.568	13.568	(1.351)	87340	20.0000	19.030
153 t-Butyl ethyl ether	59	4.031	4.031	(0.787)	194586	10.0000	9.670
154 t-Amyl methyl ether	73	4.977	4.977	(0.972)	182894	10.0000	9.840
155 1,2,3-Trimethylbenzene	105	10.113	10.113	(1.007)	226938	10.0000	9.733

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6204.D
Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux10.i
Lab File ID: UXX6204.D
Lab Smp Id: 10NG-A9IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1904

Calibration Date: 14-NOV-2010
Calibration Time: 19:59

Level: LOW
Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,2

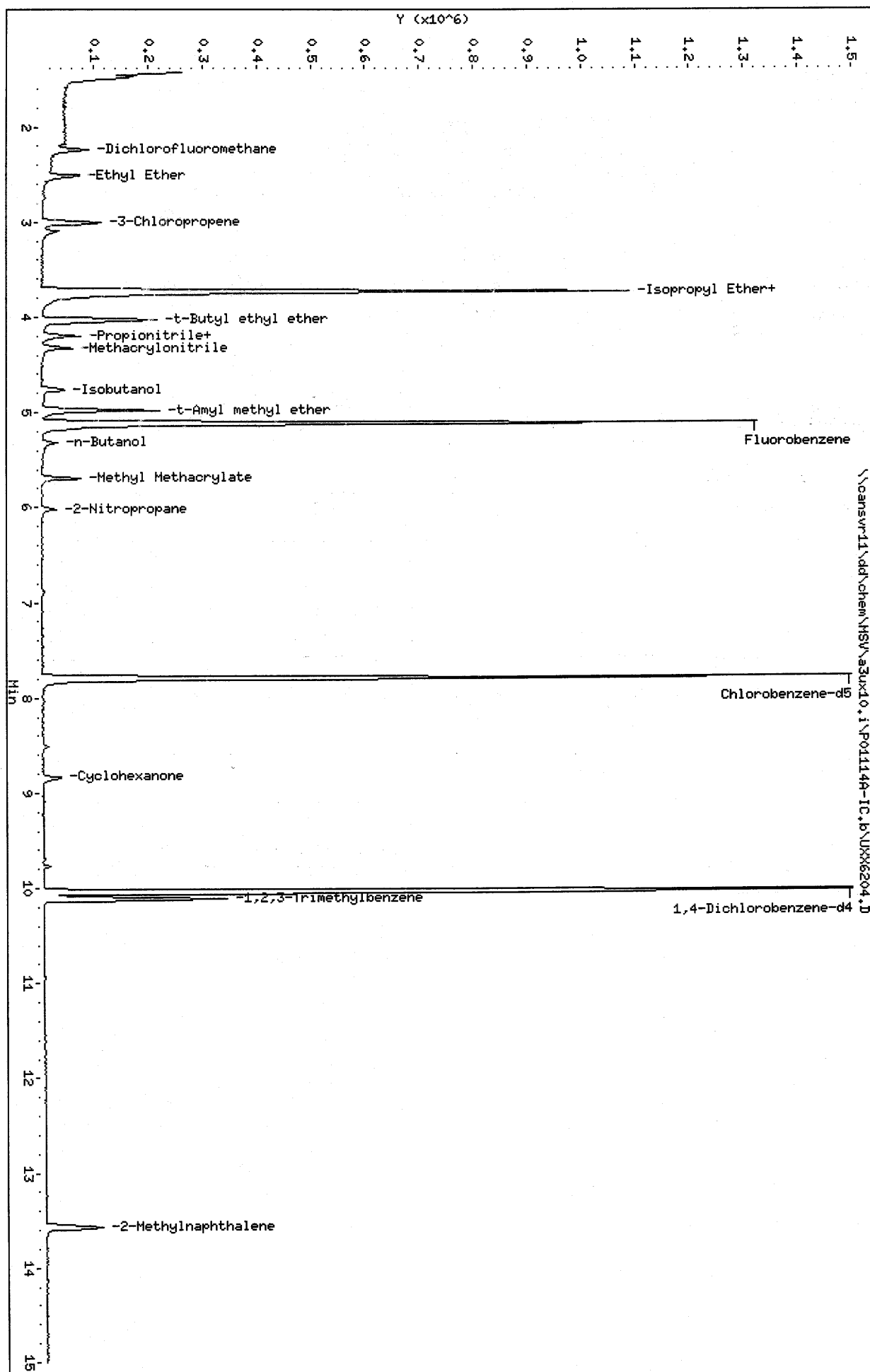
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1474073	-3.79
2 Chlorobenzene-d5	1087660	543830	2175320	1076524	-1.02
3 1,4-Dichlorobenze	606796	303398	1213592	639126	5.33

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.02
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\canswr11\dd\chem\HSV\33x10.i\PO11144-1C.b\UXK6204.D
 Date : 14-NOV-2010 20:42
 Client ID:
 Sample Info: 10NG-A91C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18



TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6205.D
 Lab Smp Id: 5NG-A9IC
 Inj Date : 14-NOV-2010 21:03
 Operator : 1904
 Smp Info : 5NG-A9IC
 Misc Info : P01114A-IC, 8260LLUX10, 3-IX.SUB, 1904, 1, 1
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\8260LLUX10.m
 Meth Date : 15-Nov-2010 08:41 3ux10.i Quant Type: ISTD
 Cal Date : 14-NOV-2010 20:42 Cal File: UXX6204.D
 Als bottle: 13 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-IX.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96		5.120	5.120	(1.000)	1486938	50.0000		
* 2 Chlorobenzene-d5	117		7.794	7.794	(1.000)	1062001	50.0000		
* 3 1,4-Dichlorobenzene-d4	152		10.042	10.042	(1.000)	587992	50.0000		
14 Dichlorofluoromethane	67		2.232	2.232	(0.436)	54028	5.00000	4.951	
89 Ethyl Ether	59		2.505	2.505	(0.489)	27867	5.00000	4.989	
91 3-Chloropropene	76		3.001	3.001	(0.586)	15695	5.00000	4.432	
92 Isopropyl Ether	87		3.735	3.735	(0.730)	146823	25.0000	23.597	
93 2-Chloro-1,3-butadiene	53		3.759	3.759	(0.734)	48818	5.00000	4.746	
94 Propionitrile	54		4.185	4.185	(0.817)	6352	10.0000	8.691	
95 Ethyl Acetate	43		4.197	4.197	(0.820)	50565	10.0000	10.365	
96 Methacrylonitrile	41		4.327	4.327	(0.845)	17109	5.00000	4.738	
97 Isobutanol	41		4.765	4.765	(0.611)	14799	100.000	94.442	
99 n-Butanol	56		5.321	5.321	(0.683)	9931	100.000	81.266	
100 Methyl Methacrylate	41		5.688	5.688	(1.111)	20675	5.00000	4.746	
101 2-Nitropropane	41		6.019	6.019	(1.176)	9445	10.0000	8.402	
103 Cyclohexanone	55		8.835	8.835	(0.880)	10633	50.0000	49.157	
146 2-Methylnaphthalene	142		13.568	13.568	(1.351)	39343	10.0000	9.318	
153 t-Butyl ethyl ether	59		4.031	4.031	(0.787)	95112	5.00000	4.686(a)	
154 t-Amyl methyl ether	73		4.978	4.978	(0.972)	87319	5.00000	4.657(a)	
155 1,2,3-Trimethylbenzene	105		10.113	10.113	(1.007)	97621	5.00000	4.551(a)	

Data File: \\cansvr11\dd\chem\MSV\A3UX10.I\P01114A-IC.b\UXX6205.D
Report Date: 15-Nov-2010 08:41

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\UXX6205.D
 Report Date: 15-Nov-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i
 Lab File ID: UXX6205.D
 Lab Smp Id: 5NG-A9IC
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: 1904

Calibration Date: 14-NOV-2010
 Calibration Time: 19:59

Level: LOW
 Sample Type: WATER

Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\8260LLUX10.m
 Misc Info: P01114A-IC,8260LLUX10,3-IX.SUB,1904,1,1

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1532110	766055	3064220	1486938	-2.95
2 Chlorobenzene-d5	1087660	543830	2175320	1062001	-2.36
3 1,4-Dichlorobenze	606796	303398	1213592	587992	-3.10

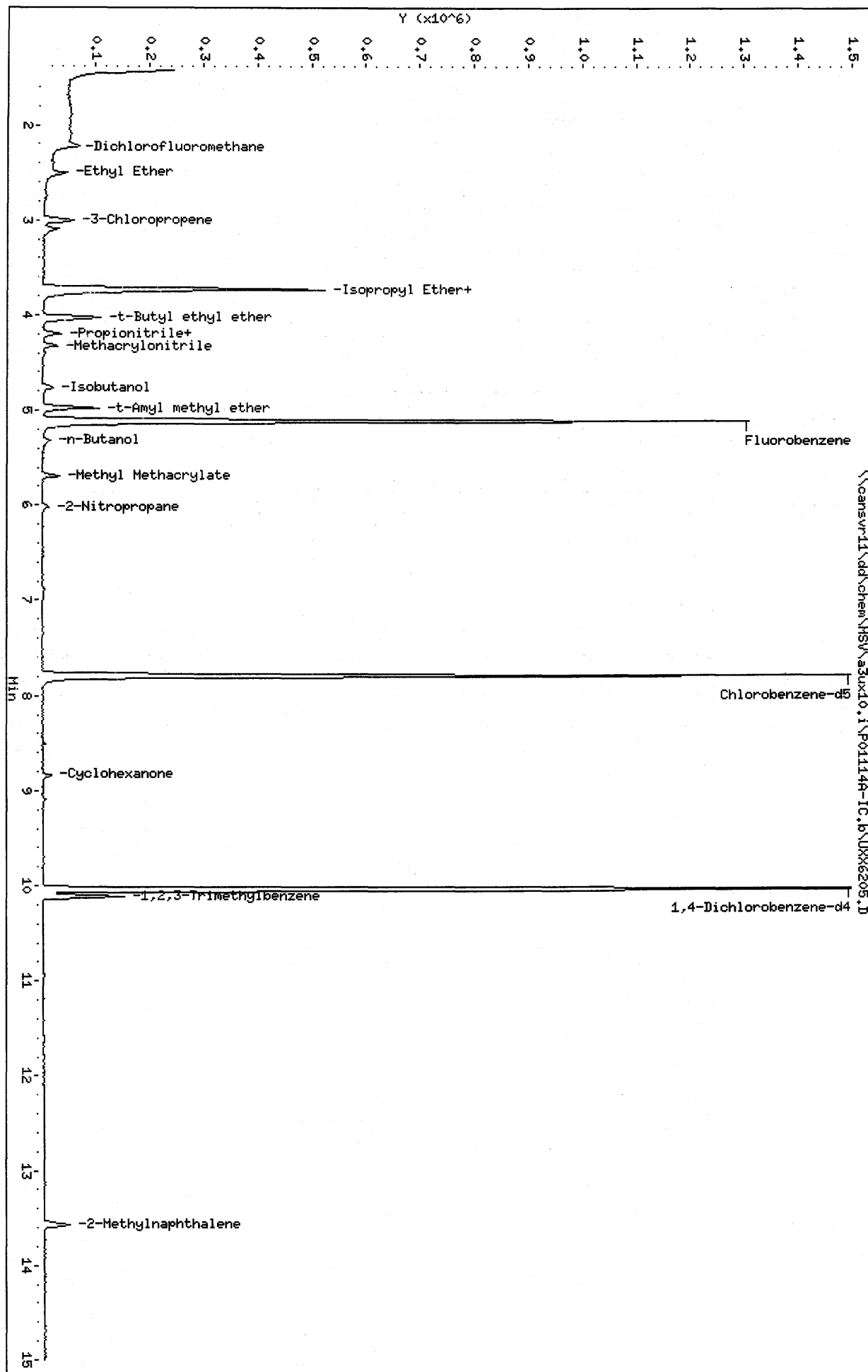
COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.12	4.62	5.62	5.12	0.03
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\PO11144-IC.b\UXX6205.D
 Date : 14-NOV-2010 21:03

Client ID:
 Sample Info: 5NG-091C
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



Calibration History

Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Start Cal Date: 14-NOV-2010 16:46
 End Cal Date : 29-DEC-2010 11:20
 Last Cal Level: 4
 Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
23-NOV-2010 23:13	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6626.D
14-NOV-2010 21:03	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6205.D
29-DEC-2010 11:20	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7806.D
Cal Level: 2 , Cal Amount: 10.00000		
23-NOV-2010 22:51	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6625.D
14-NOV-2010 20:42	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6204.D
29-DEC-2010 10:59	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7805.D
Cal Level: 3 , Cal Amount: 25.00000		
23-NOV-2010 22:30	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6624.D
14-NOV-2010 20:21	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6203.D
29-DEC-2010 10:38	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7804.D
Cal Level: 4 , Cal Amount: 50.00000		
23-NOV-2010 22:09	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6623.D
14-NOV-2010 19:59	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6202.D
29-DEC-2010 10:17	2-8260	\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7803.D
Cal Level: 5 , Cal Amount: 100.00000		
23-NOV-2010 21:47	MISC	\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6622.D
14-NOV-2010 19:38	3-IX	\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6201.D

29-DEC-2010 09:55	2-8260
\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7802.D	

Cal Level: 6 , Cal Amount: 200.00000	
--------------------------------------	--

23-NOV-2010 21:26	MISC
\\cansvr11\dd\chem\MSV\3ux10.i\P01123B-IC.b\UXX6621.D	
14-NOV-2010 19:17	3-IX
\\cansvr11\dd\chem\MSV\3ux10.i\P01114A-IC.b\UXX6200.D	
29-DEC-2010 09:33	2-8260
\\cansvr11\dd\chem\MSV\3ux10.i\P01229A-IC.b\UXX7801.D	

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

10-JAN-2011 09:51	2-8260
\\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D	
10-JAN-2011 10:13	3-IX
\\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7993.D	

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 3ux10.i Injection Date: 10-JAN-2011 09:51
 Lab File ID: UXX7992.D Init. Cal. Date(s): 14-NOV-2010 29-DEC-2010
 Analysis Type: WATER Init. Cal. Times: 16:46 11:20
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
4 Dibromofluoromethane	0.19726	0.19647	0.19647	0.010	0.40027	50.00000	Averaged
5 1,2-Dichloroethane-d4	0.23090	0.22800	0.22800	0.010	1.25765	50.00000	Averaged
6 Toluene-d8	1.09382	1.01913	1.01913	0.010	6.82849	50.00000	Averaged
7 Bromofluorobenzene	0.38401	0.37305	0.37305	0.010	2.85413	50.00000	Averaged
8 Dichlorodifluoromethane	0.17622	0.13688	0.13688	0.010	22.32130	50.00000	Averaged
9 Chloromethane	0.23130	0.18231	0.18231	0.100	21.18068	50.00000	Averaged
10 Vinyl Chloride	0.21515	0.20115	0.20115	0.010	6.50600	20.00000	Averaged
11 Bromomethane	0.10460	0.10149	0.10149	0.010	2.97597	50.00000	Averaged
12 Chloroethane	0.13175	0.12980	0.12980	0.010	1.48100	50.00000	Averaged
13 Trichlorofluoromethane	0.19271	0.21684	0.21684	0.010	-12.52065	50.00000	Averaged
15 Acrolein	0.03274	0.02663	0.02663	0.010	18.63921	50.00000	Averaged
16 Acetone	0.06178	0.06400	0.06400	0.010	-3.59259	50.00000	Averaged
17 1,1-Dichloroethene	0.21394	0.19788	0.19788	0.010	7.50528	20.00000	Averaged
18 Freon-113	0.14704	0.18040	0.18040	0.010	-22.69034	50.00000	Averaged
19 Iodomethane	0.31697	0.28066	0.28066	0.010	11.45666	50.00000	Averaged
20 Carbon Disulfide	0.59306	0.53215	0.53215	0.010	10.27119	50.00000	Averaged
21 Methylene Chloride	0.25560	0.21887	0.21887	0.010	14.37033	50.00000	Averaged
22 Acetonitrile	500	752	0.02384	0.010	-50.40406	0.000e+000	Quadratic
23 Acrylonitrile	0.07615	0.06904	0.06904	0.010	9.33325	50.00000	Averaged
24 Methyl tert-butyl ether	0.60161	0.54598	0.54598	0.010	9.24723	50.00000	Averaged
25 trans-1,2-Dichloroethene	0.24436	0.21529	0.21529	0.010	11.89991	50.00000	Averaged
26 Hexane	0.04393	0.05162	0.05162	0.010	-17.51044	20.00000	Averaged
27 Vinyl acetate	0.26295	0.23120	0.23120	0.010	12.07610	50.00000	Averaged
28 1,1-Dichloroethane	0.38885	0.36485	0.36485	0.100	6.17255	50.00000	Averaged
29 tert-Butyl Alcohol	0.01111	0.01423	0.01423	0.010	-28.11126	50.00000	Averaged
30 2-Butanone	0.07682	0.08591	0.08591	0.010	-11.84163	50.00000	Averaged
M 31 1,2-Dichloroethene (total)	0.24517	0.22964	0.22964	0.010	6.33605	50.00000	Averaged
32 cis-1,2-dichloroethene	0.24597	0.24399	0.24399	0.010	0.80860	50.00000	Averaged
33 2,2-Dichloropropane	0.21754	0.22598	0.22598	0.010	-3.87614	50.00000	Averaged
34 Bromochloromethane	0.11829	0.12029	0.12029	0.010	-1.68477	50.00000	Averaged
35 Chloroform	0.36815	0.37300	0.37300	0.010	-1.31792	20.00000	Averaged
36 Tetrahydrofuran	0.05271	0.05307	0.05307	0.010	-0.68566	50.00000	Averaged
37 1,1,1-Trichloroethane	0.28216	0.30469	0.30469	0.010	-7.98555	50.00000	Averaged
38 1,1-Dichloropropene	0.28250	0.31272	0.31272	0.010	-10.69864	50.00000	Averaged
39 Carbon Tetrachloride	0.21636	0.27074	0.27074	0.010	-25.13380	50.00000	Averaged
40 1,2-Dichloroethane	0.26369	0.28461	0.28461	0.010	-7.93185	50.00000	Averaged
41 Benzene	0.92812	0.95386	0.95386	0.010	-2.77322	50.00000	Averaged
42 Trichloroethene	0.23623	0.24144	0.24144	0.010	-2.20406	50.00000	Averaged
43 1,2-Dichloropropane	0.21146	0.21618	0.21618	0.010	-2.22965	20.00000	Averaged
44 1,4-Dioxane	2500	4393	0.00229	0.010	-75.72317	0.000e+000	Quadratic <-
45 Dibromomethane	0.11820	0.12828	0.12828	0.010	-8.52444	50.00000	Averaged
46 Bromodichloromethane	0.23682	0.25702	0.25702	0.010	-8.52959	50.00000	Averaged
47 2-Chloroethyl vinyl ether	100	94.47835	0.11118	0.010	5.52165	0.000e+000	Wt Linear

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 3ux10.i Injection Date: 10-JAN-2011 09:51
 Lab File ID: UXX7992.D Init. Cal. Date(s): 14-NOV-2010 29-DEC-2010
 Analysis Type: WATER Init. Cal. Times: 16:46 11:20
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 cis-1,3-Dichloropropene	0.28320	0.30399	0.30399	0.010	-7.34140	50.00000	Averaged
49 4-Methyl-2-pentanone	0.14864	0.15711	0.15711	0.010	-5.69577	50.00000	Averaged
50 Toluene	1.29680	1.25006	1.25006	0.010	3.60484	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.32216	0.32370	0.32370	0.010	-0.48018	50.00000	Averaged
52 Ethyl Methacrylate	50.00000	42.25775	0.27730	0.010	15.48450	0.000e+000	Wt Linear
53 1,1,2-Trichloroethane	0.24441	0.23373	0.23373	0.010	4.36785	50.00000	Averaged
54 1,3-Dichloropropane	0.43078	0.41021	0.41021	0.010	4.77495	50.00000	Averaged
55 Tetrachloroethene	0.26471	0.26441	0.26441	0.010	0.11438	50.00000	Averaged
56 2-Hexanone	100	92.29741	0.12395	0.010	7.70259	0.000e+000	Wt Linear
57 Dibromochloromethane	0.22284	0.22908	0.22908	0.010	-2.79826	50.00000	Averaged
58 1,2-Dibromoethane	0.23185	0.22926	0.22926	0.010	1.11841	50.00000	Averaged
59 Chlorobenzene	0.84975	0.79617	0.79617	0.300	6.30500	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.26797	0.26704	0.26704	0.010	0.34861	50.00000	Averaged
61 Ethylbenzene	0.44126	0.42116	0.42116	0.010	4.55390	20.00000	Averaged
62 m + p-Xylene	0.55674	0.54331	0.54331	0.010	2.41235	50.00000	Averaged
M 63 Xylenes (total)	0.55101	0.53315	0.53315	0.010	3.24087	50.00000	Averaged
64 Xylene-o	0.53954	0.51283	0.51283	0.010	4.95072	50.00000	Averaged
65 Styrene	0.83203	0.81531	0.81531	0.010	2.00876	50.00000	Averaged
66 Bromoform	50.00000	47.35017	0.13781	0.100	5.29967	0.000e+000	Wt Linear
67 Isopropylbenzene	1.33617	1.31819	1.31819	0.010	1.34553	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.55835	0.50107	0.50107	0.300	10.25767	50.00000	Averaged
69 1,4-Dichloro-2-butene	50.00000	54.66769	0.09527	0.010	-9.33538	0.000e+000	Quadratic
70 1,2,3-Trichloropropane	0.17572	0.16406	0.16406	0.010	6.63339	50.00000	Averaged
71 Bromobenzene	0.65197	0.56367	0.56367	0.010	13.54312	50.00000	Averaged
72 n-Propylbenzene	0.65891	0.61197	0.61197	0.010	7.12496	50.00000	Averaged
73 2-Chlorotoluene	0.60957	0.53784	0.53784	0.010	11.76699	50.00000	Averaged
74 1,3,5-Trimethylbenzene	2.00116	1.86211	1.86211	0.010	6.94844	50.00000	Averaged
75 4-Chlorotoluene	0.63023	0.56309	0.56309	0.010	10.65215	50.00000	Averaged
76 tert-Butylbenzene	1.69144	1.76345	1.76345	0.010	-4.25739	50.00000	Averaged
77 1,2,4-Trimethylbenzene	2.03357	1.89335	1.89335	0.010	6.89518	50.00000	Averaged
78 sec-Butylbenzene	2.26440	2.19472	2.19472	0.010	3.07723	50.00000	Averaged
79 4-Isopropyltoluene	1.92729	1.89369	1.89369	0.010	1.74333	50.00000	Averaged
80 1,3-Dichlorobenzene	1.23598	1.10966	1.10966	0.010	10.22069	50.00000	Averaged
81 1,4-Dichlorobenzene	1.29519	1.16111	1.16111	0.010	10.35206	50.00000	Averaged
82 n-Butylbenzene	1.51500	1.50660	1.50660	0.010	0.55451	50.00000	Averaged
83 1,2-Dichlorobenzene	1.17121	1.09080	1.09080	0.010	6.86530	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.08509	0.09626	0.09626	0.010	-13.11974	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.69804	0.69188	0.69188	0.010	0.88328	50.00000	Averaged
86 Hexachlorobutadiene	0.25454	0.28172	0.28172	0.010	-10.67856	50.00000	Averaged
87 Naphthalene	50.00000	46.89560	1.62893	0.010	6.20881	0.000e+000	Wt Linear
88 1,2,3-Trichlorobenzene	0.64009	0.67303	0.67303	0.010	-5.14593	50.00000	Averaged
98 Cyclohexane	0.32800	0.39437	0.39437	0.010	-20.23382	50.00000	Averaged
143 Methyl Acetate	0.15478	0.14601	0.14601	0.010	5.66401	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux10.i Injection Date: 10-JAN-2011 09:51
 Lab File ID: UXX7992.D Init. Cal. Date(s): 14-NOV-2010 29-DEC-2010
 Analysis Type: WATER Init. Cal. Times: 16:46 11:20
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
144 Methylcyclohexane	0.31184	0.39709	0.39709	0.010	-27.33882	50.00000	Averaged
141 1,3,5-Trichlorobenzene	0.77561	0.78452	0.78452	0.010	-1.14924	50.00000	Averaged
149 Vinyl Acetate-86	0.03131	0.02783	0.02783	0.010	11.09695	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7992.D
 Lab Smp Id: 50NG-CC
 Inj Date : 10-JAN-2011 09:51
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info : 50NG-CC
 Misc Info : P10110A,8260LLUX10,2-8260.SUB,1904,2
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 a3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-8260.SUB
 Target Version: 4.14
 Processing Host: CANPMSV24

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
	MASS							(ng)	(ng)
=====	=====		=====	=====	=====	=====		=====	=====
* 1 Fluorobenzene	96		5.113	5.113	(1.000)	1370072		50.0000	
* 2 Chlorobenzene-d5	117		7.787	7.787	(1.000)	1084996		50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.036	10.036	(1.000)	659942		50.0000	
\$ 4 Dibromofluoromethane	113		4.533	4.533	(0.887)	269184		50.0000	49.800
\$ 5 1,2-Dichloroethane-d4	65		4.817	4.817	(0.942)	312370		50.0000	49.371
\$ 6 Toluene-d8	98		6.474	6.474	(0.831)	1105748		50.0000	46.586
\$ 7 Bromofluorobenzene	95		8.900	8.900	(1.143)	404761		50.0000	48.573
8 Dichlorodifluoromethane	85		1.492	1.492	(0.292)	187541		50.0000	38.839
9 Chloromethane	50		1.611	1.611	(0.315)	249775		50.0000	39.410
10 Vinyl Chloride	62		1.717	1.717	(0.336)	275593		50.0000	46.747
11 Bromomethane	94		1.989	1.989	(0.389)	139051		50.0000	48.512
12 Chloroethane	64		2.084	2.084	(0.408)	177835		50.0000	49.260
13 Trichlorofluoromethane	101		2.297	2.297	(0.449)	297090		50.0000	56.260
15 Acrolein	56		2.605	2.605	(0.509)	364911		500.000	406.80
16 Acetone	43		2.735	2.735	(0.535)	175374		100.000	103.59
17 1,1-Dichloroethene	96		2.711	2.711	(0.530)	271113		50.0000	46.247
18 Freon-113	151		2.735	2.735	(0.535)	247161		50.0000	61.345
19 Iodomethane	142		2.841	2.841	(0.556)	384518		50.0000	44.272
20 Carbon Disulfide	76		2.912	2.912	(0.570)	729077		50.0000	44.864

21 Methylene Chloride	84	3.102	3.102 (0.607)	299864	50.0000	42.815
22 Acetonitrile	41	2.960	2.960 (0.579)	326572	500.000	752.02
23 Acrylonitrile	53	3.279	3.279 (0.641)	189183	100.000	90.667

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.338	3.338	(0.653)	748026	50.0000	45.376
25 trans-1,2-Dichloroethene	96	3.338	3.338	(0.653)	294957	50.0000	44.050
26 Hexane	86	3.575	3.575	(0.699)	70728	50.0000	58.755
27 Vinyl acetate	43	3.705	3.705	(0.725)	316755	50.0000	43.962
28 1,1-Dichloroethane	63	3.681	3.681	(0.720)	499864	50.0000	46.914
29 tert-Butyl Alcohol	59	3.173	3.173	(0.621)	389883	1000.00	1281.1
30 2-Butanone	43	4.143	4.143	(0.810)	235413	100.000	111.84
32 cis-1,2-dichloroethene	96	4.155	4.155	(0.813)	334278	50.0000	49.596
33 2,2-Dichloropropane	77	4.167	4.167	(0.815)	309604	50.0000	51.938
34 Bromochloromethane	128	4.344	4.344	(0.850)	164802	50.0000	50.842
35 Chloroform	83	4.403	4.403	(0.861)	511043	50.0000	50.659
36 Tetrahydrofuran	42	4.391	4.391	(0.859)	72709	50.0000	50.343
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	417444	50.0000	53.993
38 1,1-Dichloropropene	75	4.723	4.723	(0.924)	428451	50.0000	55.349
39 Carbon Tetrachloride	117	4.735	4.735	(0.926)	370930	50.0000	62.567
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	389935	50.0000	53.966
41 Benzene	78	4.888	4.888	(0.956)	1306857	50.0000	51.387
42 Trichloroethene	130	5.433	5.433	(1.062)	330787	50.0000	51.102
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	296176	50.0000	51.115
44 1,4-Dioxane	88	5.717	5.717	(1.118)	156856	2500.00	4393.1
45 Dibromomethane	93	5.705	5.705	(1.116)	175750	50.0000	54.262
46 Bromodichloromethane	83	5.835	5.835	(1.141)	352142	50.0000	54.265
47 2-Chloroethyl vinyl ether	63	6.083	6.083	(1.190)	304648	100.000	94.478
48 cis-1,3-Dichloropropene	75	6.225	6.225	(1.218)	416494	50.0000	53.671
49 4-Methyl-2-pentanone	43	6.356	6.356	(1.243)	430501	100.000	105.70
50 Toluene	91	6.533	6.533	(0.839)	1356306	50.0000	48.198
51 trans-1,3-Dichloropropene	75	6.711	6.711	(0.862)	351217	50.0000	50.240
52 Ethyl Methacrylate	69	6.782	6.782	(0.871)	300867	50.0000	42.258
53 1,1,2-Trichloroethane	97	6.876	6.876	(0.883)	253599	50.0000	47.816
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	445077	50.0000	47.612
55 Tetrachloroethene	164	7.042	7.042	(0.904)	286886	50.0000	49.943
56 2-Hexanone	43	7.101	7.101	(0.912)	268981	100.000	92.297
57 Dibromochloromethane	129	7.243	7.243	(0.930)	248551	50.0000	51.399
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	248748	50.0000	49.441
59 Chlorobenzene	112	7.823	7.823	(1.005)	863841	50.0000	46.848
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	289736	50.0000	49.826
61 Ethylbenzene	106	7.918	7.918	(1.017)	456961	50.0000	47.723
62 m + p-Xylene	106	8.024	8.024	(1.030)	1178973	100.000	97.588
64 Xylene-o	106	8.403	8.403	(1.079)	556420	50.0000	47.525
65 Styrene	104	8.415	8.415	(1.081)	884612	50.0000	48.996
66 Bromoform	173	8.592	8.592	(1.103)	149521	50.0000	47.350
67 Isopropylbenzene	105	8.758	8.758	(1.125)	1430233	50.0000	49.327
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	330679	50.0000	44.871
69 1,4-Dichloro-2-butene	53	9.077	9.077	(0.904)	62871	50.0000	54.668
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	108270	50.0000	46.683
71 Bromobenzene	156	9.053	9.053	(0.902)	371989	50.0000	43.228
72 n-Propylbenzene	120	9.160	9.160	(0.913)	403862	50.0000	46.438
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	354946	50.0000	44.116
74 1,3,5-Trimethylbenzene	105	9.326	9.326	(0.929)	1228882	50.0000	46.526
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	371609	50.0000	44.674
76 tert-Butylbenzene	119	9.645	9.645	(0.961)	1163775	50.0000	52.129
77 1,2,4-Trimethylbenzene	105	9.692	9.692	(0.966)	1249501	50.0000	46.552

78 sec-Butylbenzene	105	9.870	9.870 (0.983)	1448387	50.0000	48.461
79 4-Isopropyltoluene	119	10.000	10.000 (0.996)	1249724	50.0000	49.128

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

Compounds	QUANT SIG							AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
								(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
80 1,3-Dichlorobenzene	146	9.976	9.976	(0.994)	732308	50.0000	44.890		
81 1,4-Dichlorobenzene	146	10.059	10.059	(1.002)	766264	50.0000	44.824		
82 n-Butylbenzene	91	10.414	10.414	(1.038)	994266	50.0000	49.723		
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	719868	50.0000	46.567		
84 1,2-Dibromo-3-chloropropane	157	11.195	11.195	(1.116)	63523	50.0000	56.560		
85 1,2,4-Trichlorobenzene	180	12.035	12.035	(1.199)	456600	50.0000	49.558		
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	185920	50.0000	55.339		
87 Naphthalene	128	12.284	12.284	(1.224)	1075000	50.0000	46.896		
88 1,2,3-Trichlorobenzene	180	12.532	12.532	(1.249)	444161	50.0000	52.573		
98 Cyclohexane	56	4.652	4.652	(0.910)	540315	50.0000	60.117		
143 Methyl Acetate	43	3.007	3.007	(0.588)	400092	100.000	94.336		
144 Methylcyclohexane	83	5.610	5.610	(1.097)	544042	50.0000	63.669		
141 1,3,5-Trichlorobenzene	180	11.420	11.420	(1.138)	517740	50.0000	50.575		
149 Vinyl Acetate-86	86	3.705	3.705	(0.725)	38134	50.0000	44.452		

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7992.D
 Report Date: 10-Jan-2011 10:32

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX7992.D Calibration Time: 10:13
 Lab Smp Id: 50NG-CC
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,2-8260.SUB,1904,2

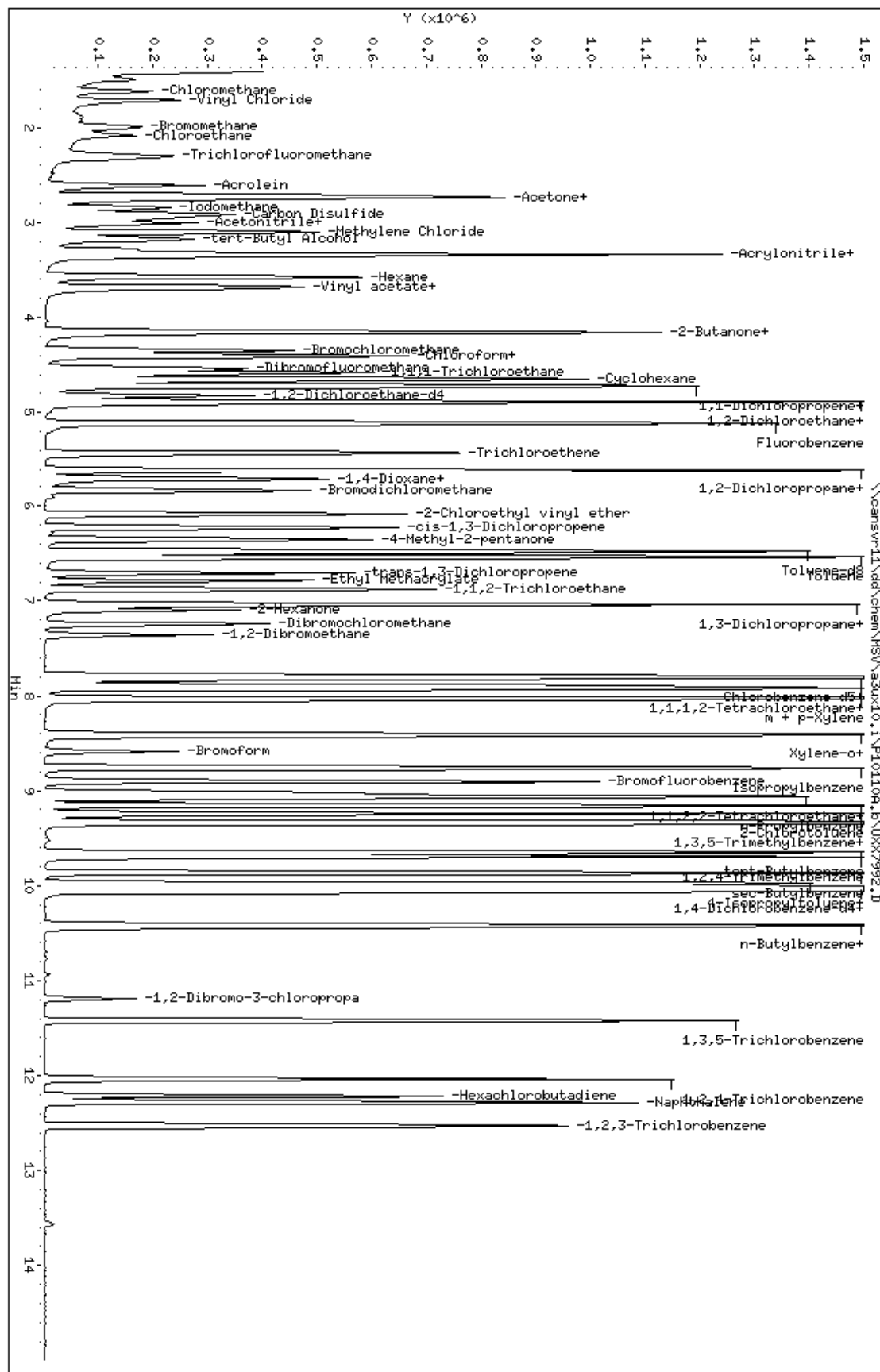
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1133320	566660	2266640	1370072	20.89
2 Chlorobenzene-d5	909716	454858	1819432	1084996	19.27
3 1,4-Dichlorobenze	529030	264515	1058060	659942	24.75

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33ux10.i\P101109.b\UX7992.D
 Date : 10-JAN-2011 09:51
 Client ID:
 Sample Info: SONG-CC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7993.D
 Report Date: 10-Jan-2011 10:28

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux10.i Injection Date: 10-JAN-2011 10:13
 Lab File ID: UXX7993.D Init. Cal. Date(s): 14-NOV-2010 29-DEC-2010
 Analysis Type: WATER Init. Cal. Times: 16:46 11:20
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
14 Dichlorofluoromethane	0.36697	0.36008	0.36008	0.010	1.87785	50.00000	Averaged
89 Ethyl Ether	0.18782	0.16431	0.16431	0.010	12.51754	50.00000	Averaged
91 3-Chloropropene	0.11907	0.10704	0.10704	0.010	10.10501	50.00000	Averaged
92 Isopropyl Ether	0.20923	0.19675	0.19675	0.010	5.96378	50.00000	Averaged
93 2-Chloro-1,3-butadiene	0.34588	0.32304	0.32304	0.010	6.60409	50.00000	Averaged
94 Propionitrile	0.02458	0.02463	0.02463	0.010	-0.23064	50.00000	Averaged
95 Ethyl Acetate	0.16404	0.14965	0.14965	0.010	8.77274	50.00000	Averaged
96 Methacrylonitrile	0.12142	0.10855	0.10855	0.010	10.59668	50.00000	Averaged
97 Isobutanol	0.00738	0.00603	0.00603	0.010	18.26223	50.00000	Averaged<-
99 n-Butanol	0.00575	0.00401	0.00401	0.010	30.36785	50.00000	Averaged<-
100 Methyl Methacrylate	0.14647	0.12851	0.12851	0.010	12.26004	50.00000	Averaged
101 2-Nitropropane	100	85.95380	0.03655	0.010	14.04620	0.000e+000	Wt Linear
103 Cyclohexanone	0.01839	0.01620	0.01620	0.010	11.90179	50.00000	Averaged
146 2-Methylnaphthalene	0.35905	0.35152	0.35152	0.010	2.09775	50.00000	Averaged
153 t-Butyl ethyl ether	0.68257	0.58275	0.58275	0.010	14.62387	50.00000	Averaged
154 t-Amyl methyl ether	0.63044	0.51982	0.51982	0.010	17.54677	50.00000	Averaged
155 1,2,3-Trimethylbenzene	1.82411	1.89751	1.89751	0.010	-4.02432	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7993.D
 Report Date: 10-Jan-2011 10:28

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7993.D
 Lab Smp Id: 50NG-A9CC
 Inj Date : 10-JAN-2011 10:13
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info : 50NG-A9CC
 Misc Info : P10110A,8260LLUX10,3-IX.SUB,1904,2
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:28 quayler Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-IX.SUB
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
	MASS							(ng)	(ng)
=====	=====		=====	=====	=====	=====		=====	=====
* 1 Fluorobenzene	96		5.113	5.113 (1.000)		1133320		50.0000	
* 2 Chlorobenzene-d5	117		7.787	7.787 (1.000)		909716		50.0000	
* 3 1,4-Dichlorobenzene-d4	152		10.035	10.035 (1.000)		529030		50.0000	
14 Dichlorofluoromethane	67		2.238	2.238 (0.438)		408083		50.0000	49.061
89 Ethyl Ether	59		2.510	2.510 (0.491)		186212		50.0000	43.741
91 3-Chloropropene	76		3.007	3.007 (0.588)		121313		50.0000	44.947
92 Isopropyl Ether	87		3.728	3.728 (0.729)		1114889		250.000	235.09
93 2-Chloro-1,3-butadiene	53		3.752	3.752 (0.734)		366106		50.0000	46.698
94 Propionitrile	54		4.190	4.190 (0.820)		55835		100.000	100.23
95 Ethyl Acetate	43		4.190	4.190 (0.820)		339198		100.000	91.227
96 Methacrylonitrile	41		4.320	4.320 (0.845)		123021		50.0000	44.702
97 Isobutanol	41		4.758	4.758 (0.611)		109716		1000.00	817.38
99 n-Butanol	56		5.314	5.314 (0.682)		72891		1000.00	696.32
100 Methyl Methacrylate	41		5.693	5.693 (1.113)		145645		50.0000	43.870
101 2-Nitropropane	41		6.012	6.012 (1.176)		82847		100.000	85.954
103 Cyclohexanone	55		8.840	8.840 (0.881)		85727		500.000	440.49
146 2-Methylnaphthalene	142		13.562	13.562 (1.351)		371929		100.000	97.902
153 t-Butyl ethyl ether	59		4.024	4.024 (0.787)		660441		50.0000	42.688
154 t-Amyl methyl ether	73		4.971	4.971 (0.972)		589122		50.0000	41.227

155	1,2,3-Trimethylbenzene	105	10.106	10.106 (1.007)	1003842	50.0000	52.012
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Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7993.D
 Report Date: 10-Jan-2011 10:28

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX7993.D Calibration Time: 09:51
 Lab Smp Id: 50NG-A9CC
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,3-IX.SUB,1904,2

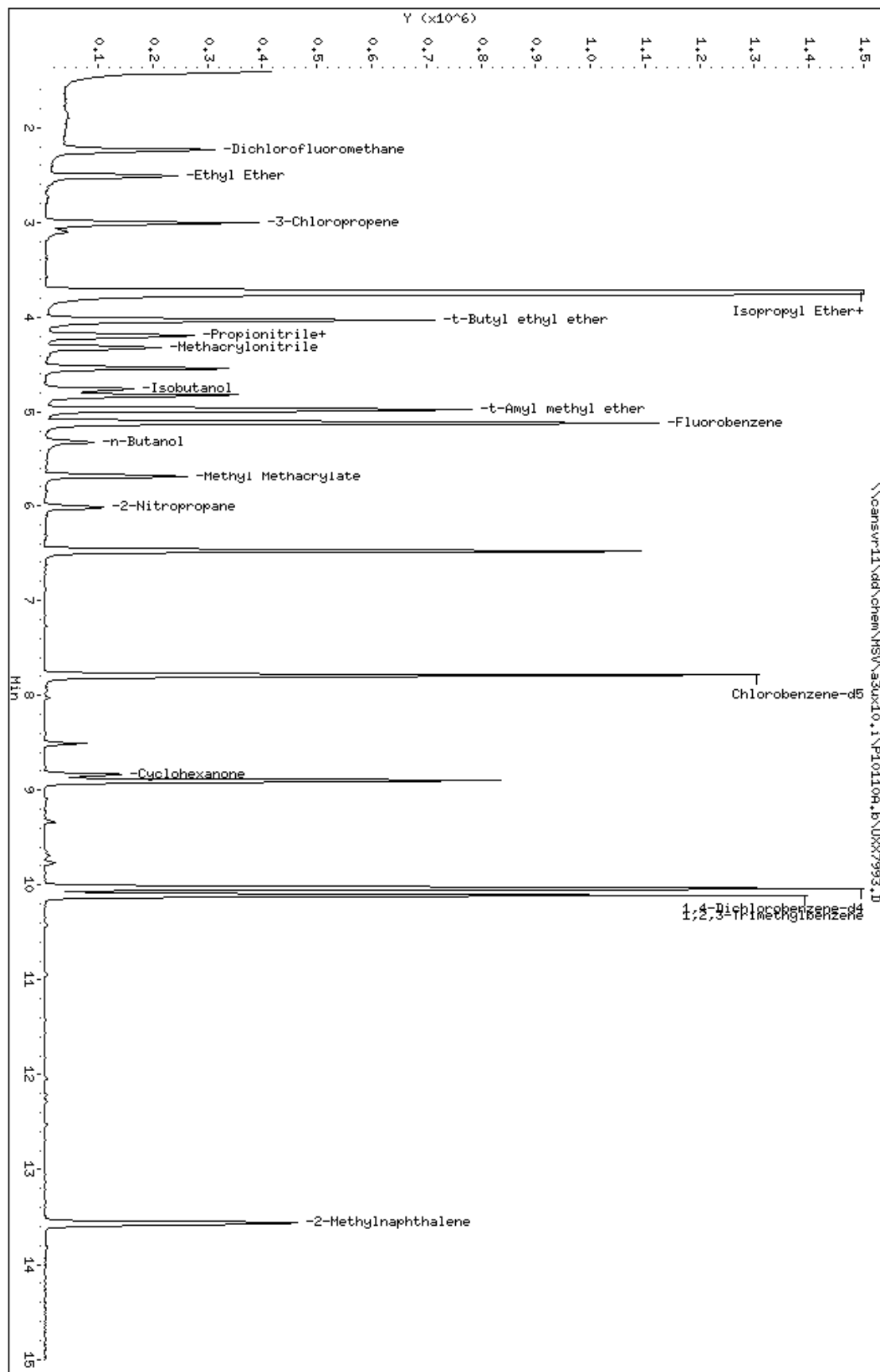
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1133320	-17.28
2 Chlorobenzene-d5	1084996	542498	2169992	909716	-16.15
3 1,4-Dichlorobenze	659942	329971	1319884	529030	-19.84

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101106.b\UX7993.D
 Date : 10-JAN-2011 10:13
 Client ID:
 Sample Info: SONG-89CC
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18



RAW QC DATA

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\BFB3928.D
 Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
 Inj Date : 14-NOV-2010 16:17
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info :
 Misc Info : P01114A-IC,BFBUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01114A-IC.b\BFBUX10.m
 Meth Date : 29-Apr-2010 09:15 quayler Quant Type: ESTD
 Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
 Als bottle: 4 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

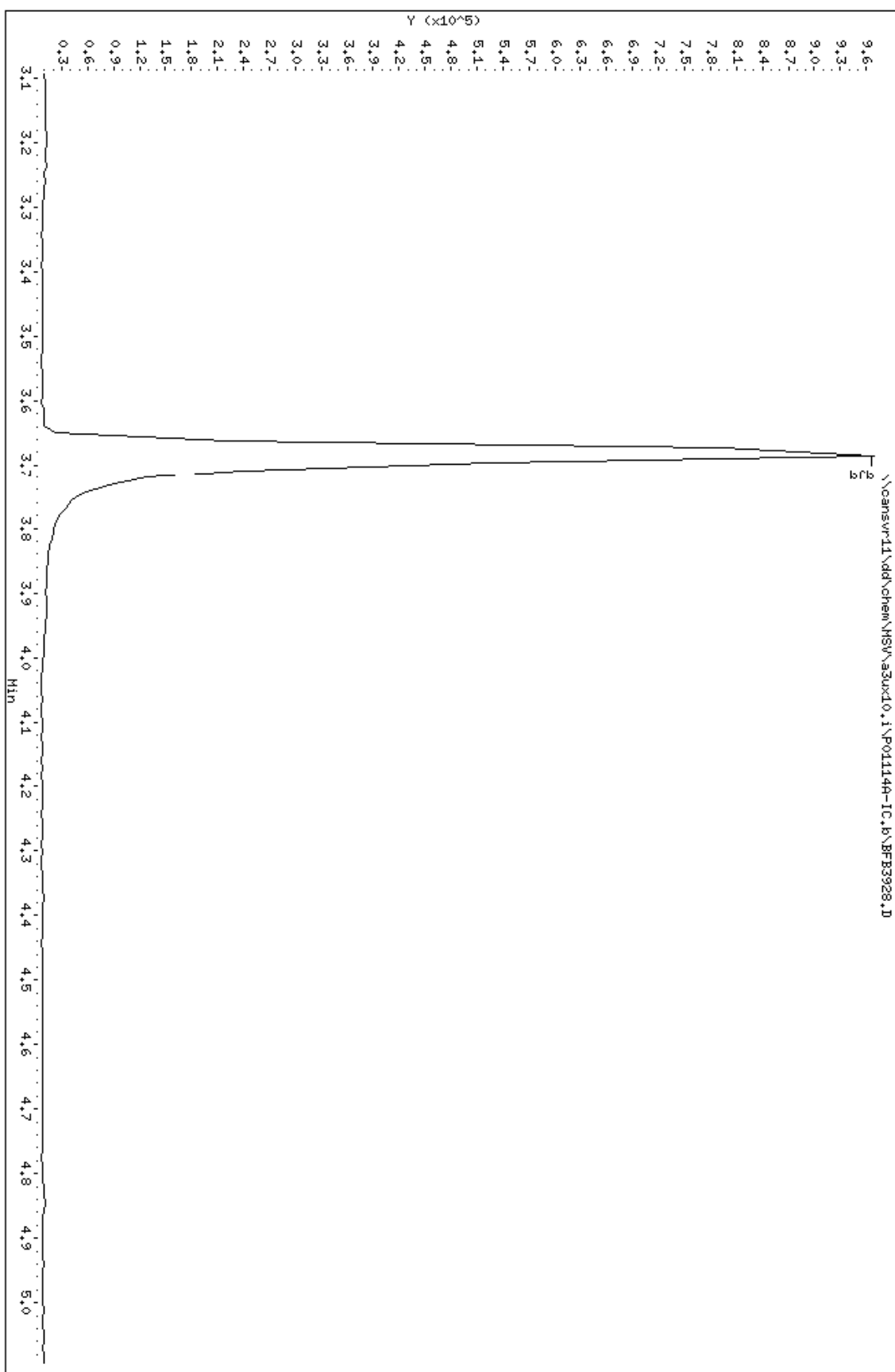
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
				ON-COL		FINAL			
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb				CAS #: 460-00-4					
3.685	3.900	-0.215	95	151232			100.00-	100.00	100.00
3.685	3.900	-0.215	50	26864			15.00-	40.00	17.76
3.685	3.900	-0.215	75	73336			30.00-	60.00	48.49
3.685	3.900	-0.215	96	10107			5.00-	9.00	6.68
3.685	3.900	-0.215	173	0	0.0	0.0	0.00-	2.00	0.00
3.685	3.900	-0.215	174	143744			50.00-	100.00	95.05
3.685	3.900	-0.215	175	10179			5.00-	9.00	7.08
3.685	3.900	-0.215	176	140544			95.00-	101.00	97.77
3.685	3.900	-0.215	177	9163			5.00-	9.00	6.52

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\F01144-IC.b\BFB3928.D
Date : 14-NOV-2010 16:17
Client ID: 50NG BFB
Sample Info:
Volume Injected (uL): 1.0
Column phase: DB624 20H

Instrument: 33ux10.i
Operator: 1904
Column diameter: 0.18

Page 1



Date : 14-NOV-2010 16:17

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

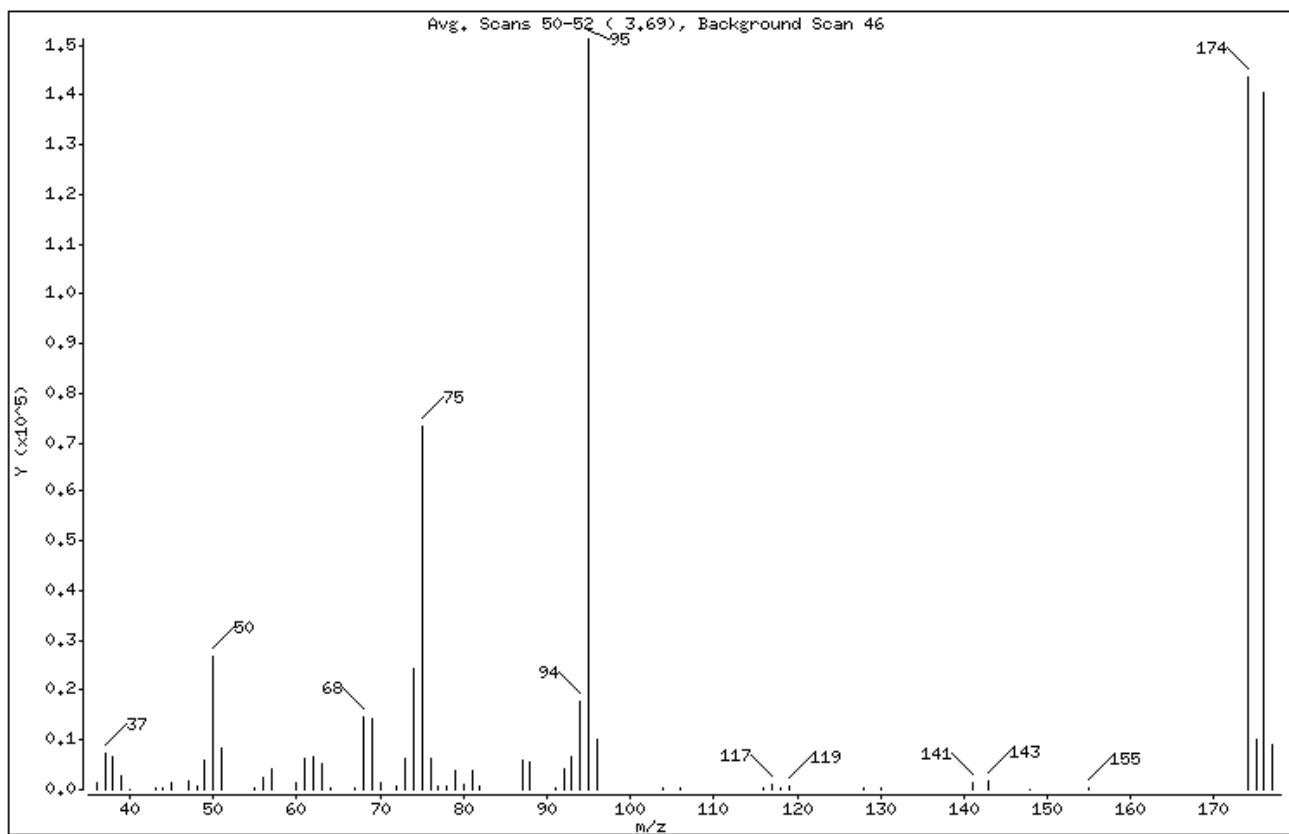
Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.76
75	30.00 - 60.00% of mass 95	48.49
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	95.05
175	5.00 - 9.00% of mass 174	6.73 (7.08)
176	95.00 - 101.00% of mass 174	92.93 (97.77)
177	5.00 - 9.00% of mass 176	6.06 (6.52)

Date : 14-NOV-2010 16:17

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB3928.D

Spectrum: Avg. Scans 50-52 (3.69), Background Scan 46

Location of Maximum: 95.00

Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1348	60.00	1218	79.00	3816	118.00	454
37.00	7165	61.00	6421	80.00	1134	119.00	605
38.00	6442	62.00	6740	81.00	3729	128.00	520
39.00	2831	63.00	5279	82.00	861	130.00	400
40.00	159	64.00	449	87.00	5869	141.00	1480
43.00	198	67.00	352	88.00	5723	143.00	1677
44.00	376	68.00	14465	91.00	483	148.00	169
45.00	1397	69.00	14408	92.00	4125	155.00	187
47.00	1632	70.00	1350	93.00	6432	174.00	143744
48.00	844	72.00	648	94.00	17584	175.00	10179
49.00	5752	73.00	6122	95.00	151232	176.00	140544
50.00	26864	74.00	24192	96.00	10107	177.00	9163
51.00	8350	75.00	73336	104.00	495		
55.00	463	76.00	6415	106.00	474		
56.00	2424	77.00	841	116.00	439		
57.00	4037	78.00	611	117.00	1063		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\BFB3989.D
 Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
 Inj Date : 29-DEC-2010 09:10
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info :
 Misc Info : P01229A-IC,BFBUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P01229A-IC.b\BFBUX10.m
 Meth Date : 29-Apr-2010 09:15 quayler Quant Type: ESTD
 Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
 Als bottle: 25 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

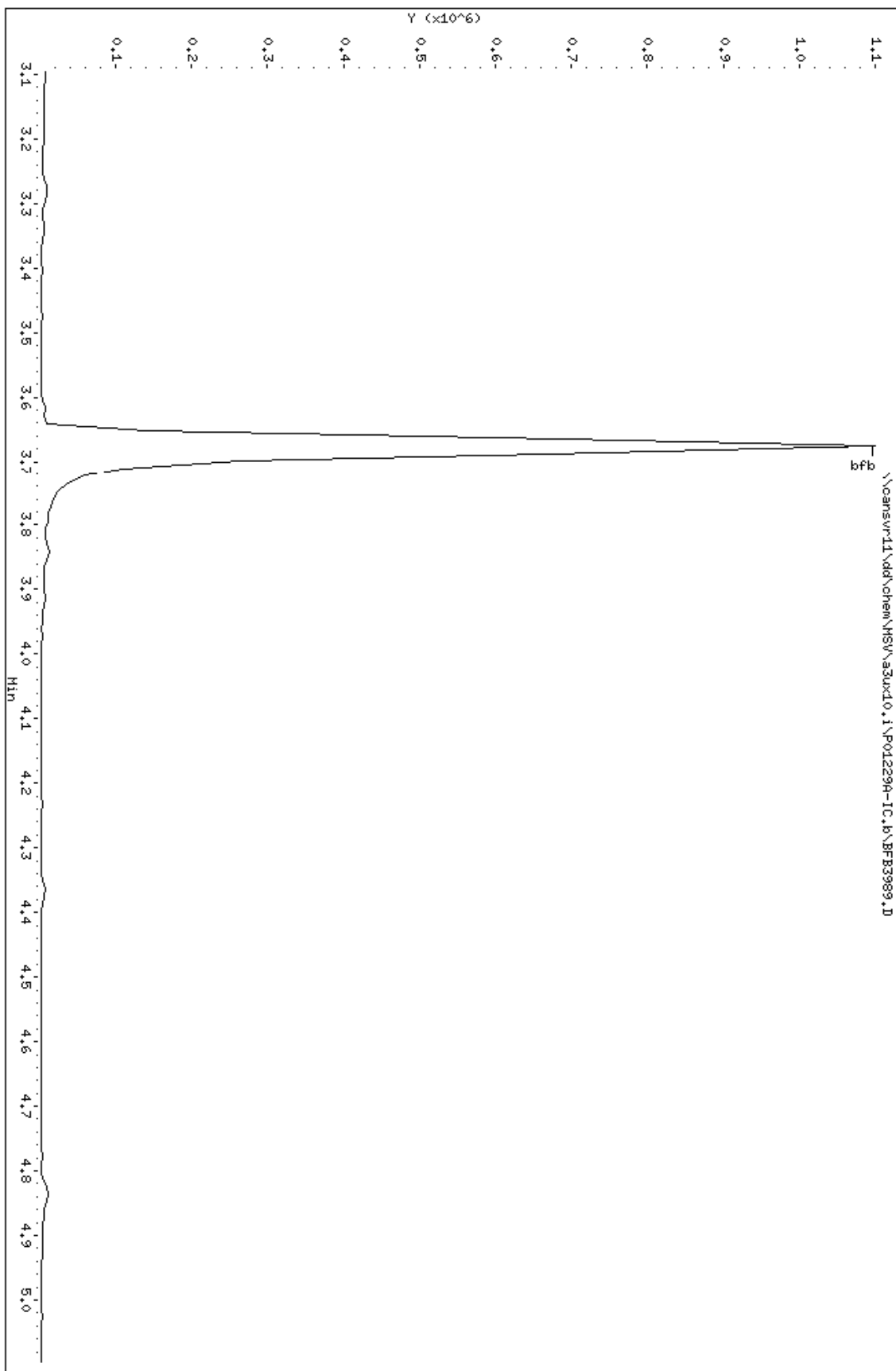
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS								
				ON-COL		FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb				CAS #: 460-00-4				
3.676	3.900	-0.224	95	160640			100.00- 100.00	100.00
3.676	3.900	-0.224	50	29560			15.00- 40.00	18.40
3.676	3.900	-0.224	75	80224			30.00- 60.00	49.94
3.676	3.900	-0.224	96	10945			5.00- 9.00	6.81
3.676	3.900	-0.224	173	242			0.00- 2.00	0.16
3.676	3.900	-0.224	174	152576			50.00- 100.00	94.98
3.676	3.900	-0.224	175	10967			5.00- 9.00	7.19
3.676	3.900	-0.224	176	148672			95.00- 101.00	97.44
3.676	3.900	-0.224	177	10016			5.00- 9.00	6.74

Data File: \\cansvr11\dd\chem\HSV\33x10.i\F01229A-1C.b\BFB3989.D
Date : 29-DEC-2010 09:10
Client ID: 50NG BFB
Sample Info:
Volume Injected (uL): 1.0
Column phase: DB624 20H

Instrument: 33x10.i
Operator: 1904
Column diameter: 0.18

Page 1



Date : 29-DEC-2010 09:10

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

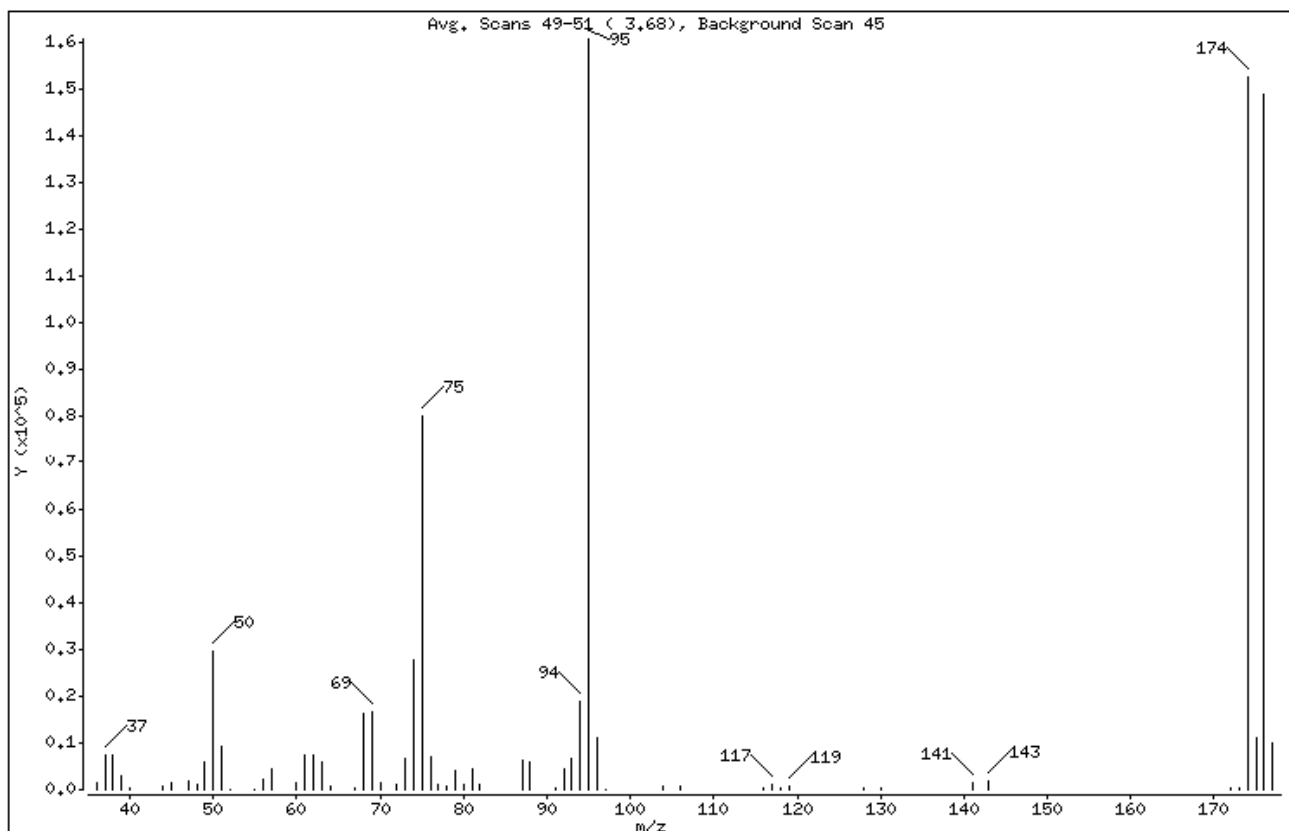
Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.40
75	30.00 - 60.00% of mass 95	49.94
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.15 (0.16)
174	50.00 - 100.00% of mass 95	94.98
175	5.00 - 9.00% of mass 174	6.83 (7.19)
176	95.00 - 101.00% of mass 174	92.55 (97.44)
177	5.00 - 9.00% of mass 176	6.24 (6.74)

Date : 29-DEC-2010 09:10

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB3989.D

Spectrum: Avg. Scans 49-51 (3.68), Background Scan 45

Location of Maximum: 95.00

Number of points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1471	60.00	1308	79.00	4149	117.00	1181
37.00	7522	61.00	7255	80.00	1189	118.00	415
38.00	7268	62.00	7385	81.00	4306	119.00	808
39.00	3008	63.00	5965	82.00	951	128.00	413
40.00	189	64.00	799	87.00	6421	130.00	279
44.00	898	67.00	266	88.00	6078	141.00	1642
45.00	1444	68.00	16408	91.00	386	143.00	1945
47.00	1753	69.00	16528	92.00	4278	172.00	394
48.00	1102	70.00	1310	93.00	6641	173.00	242
49.00	6075	72.00	981	94.00	18976	174.00	152576
50.00	29560	73.00	6730	95.00	160640	175.00	10967
51.00	9201	74.00	27872	96.00	10945	176.00	148672
52.00	172	75.00	80224	97.00	182	177.00	10016
55.00	169	76.00	7173	104.00	833		
56.00	2367	77.00	970	106.00	719		
57.00	4613	78.00	838	116.00	279		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\BFB3997.D
 Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
 Inj Date : 10-JAN-2011 09:25
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info :
 Misc Info : P10110A,BFBUX10,,1904
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\BFBUX10.m
 Meth Date : 29-Apr-2010 09:15 quayler Quant Type: ESTD
 Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
 Als bottle: 25 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

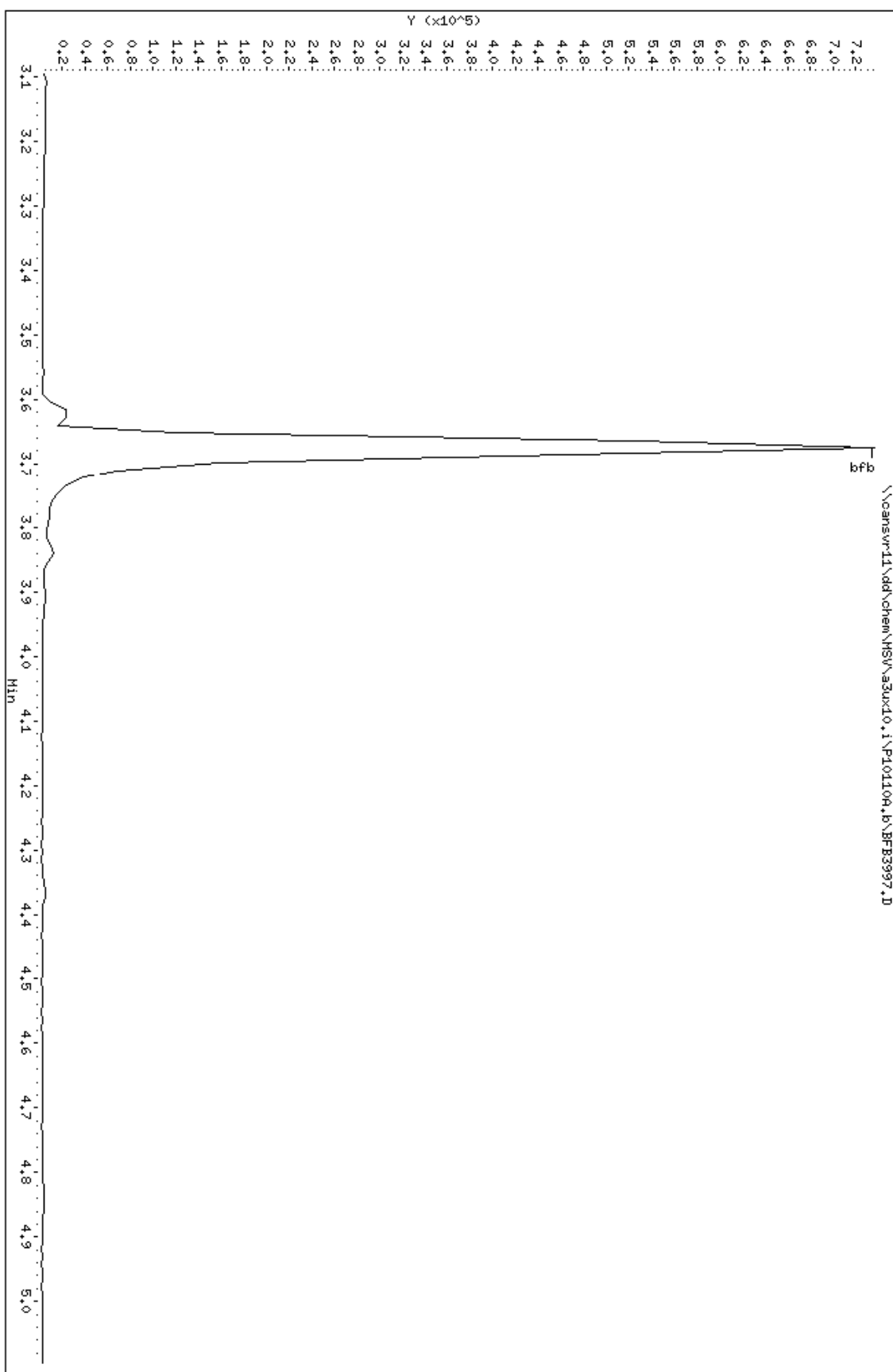
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

CONCENTRATIONS								
				ON-COL		FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb				CAS #: 460-00-4				
3.675	3.900	-0.225	95	113984			100.00- 100.00	100.00
3.675	3.900	-0.225	50	20320			15.00- 40.00	17.83
3.675	3.900	-0.225	75	53824			30.00- 60.00	47.22
3.675	3.900	-0.225	96	7502			5.00- 9.00	6.58
3.675	3.900	-0.225	173	187			0.00- 2.00	0.18
3.675	3.900	-0.225	174	104552			50.00- 100.00	91.73
3.675	3.900	-0.225	175	7628			5.00- 9.00	7.30
3.675	3.900	-0.225	176	103712			95.00- 101.00	99.20
3.675	3.900	-0.225	177	6987			5.00- 9.00	6.74

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101109.b\BFB397.D
Date : 10-JAN-2011 09:25
Client ID: 50NG BFB
Sample Info:
Volume Injected (uL): 1.0
Column phase: DB624 20H

Instrument: 33x10.i
Operator: 1904
Column diameter: 0.18

Page 1



Date : 10-JAN-2011 09:25

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

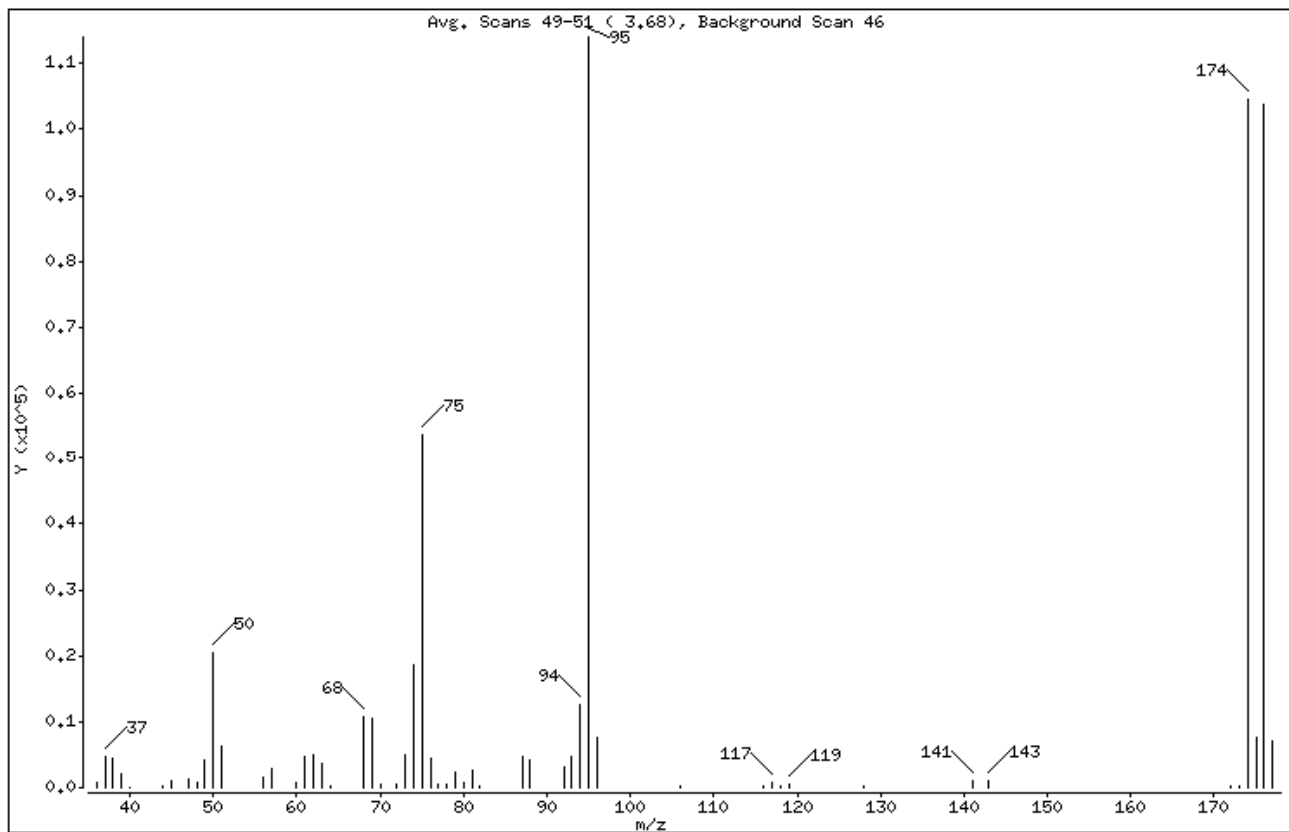
Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.83
75	30.00 - 60.00% of mass 95	47.22
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.16 (0.18)
174	50.00 - 100.00% of mass 95	91.73
175	5.00 - 9.00% of mass 174	6.69 (7.30)
176	95.00 - 101.00% of mass 174	90.99 (99.20)
177	5.00 - 9.00% of mass 176	6.13 (6.74)

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\BFB3997.D

Page 3

Date : 10-JAN-2011 09:25

Client ID: 50NG BFB

Instrument: a3ux10.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 1904

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB3997.D

Spectrum: Avg. Scans 49-51 (3,68), Background Scan 46

Location of Maximum: 95.00

Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	881	60.00	669	78.00	403	117.00	705
37.00	4824	61.00	4753	79.00	2465	118.00	182
38.00	4502	62.00	4931	80.00	754	119.00	430
39.00	1985	63.00	3713	81.00	2498	128.00	198
40.00	16	64.00	365	82.00	389	141.00	1056
44.00	333	68.00	10634	87.00	4727	143.00	1143
45.00	973	69.00	10609	88.00	4092	172.00	281
47.00	1405	70.00	586	92.00	3272	173.00	187
48.00	839	72.00	404	93.00	4637	174.00	104552
49.00	4215	73.00	4876	94.00	12593	175.00	7628
50.00	20320	74.00	18552	95.00	113984	176.00	103712
51.00	6324	75.00	53824	96.00	7502	177.00	6987
56.00	1483	76.00	4543	106.00	182		
57.00	2757	77.00	443	116.00	176		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	99	(83 - 112)	SW846 8260B
Acetone	103	(43 - 136)	SW846 8260B
Bromobenzene	84	(76 - 115)	SW846 8260B
Carbon disulfide	108	(62 - 142)	SW846 8260B
1,2-Dichloroethene (total)	97	(82 - 114)	SW846 8260B
Bromochloromethane	103	(77 - 120)	SW846 8260B
2-Butanone	108	(60 - 126)	SW846 8260B
Bromodichloromethane	109	(72 - 121)	SW846 8260B
Bromoform	88	(40 - 131)	SW846 8260B
Bromomethane	104	(11 - 185)	SW846 8260B
n-Butylbenzene	100	(66 - 125)	SW846 8260B
4-Methyl-2-pentanone	107	(63 - 128)	SW846 8260B
2-Hexanone	97	(55 - 133)	SW846 8260B
sec-Butylbenzene	95	(70 - 117)	SW846 8260B
tert-Butylbenzene	103	(71 - 115)	SW846 8260B
Xylenes (total)	97	(83 - 112)	SW846 8260B
Carbon tetrachloride	131 a	(66 - 128)	SW846 8260B
Chlorobenzene	92	(85 - 110)	SW846 8260B
Dibromochloromethane	99	(64 - 119)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	155 a	(74 - 151)	SW846 8260B
Methyl acetate	99	(58 - 131)	SW846 8260B
Chloroethane	112	(25 - 153)	SW846 8260B
Methyl tert-butyl ether (MTBE)	99	(52 - 144)	SW846 8260B
Cyclohexane	116	(54 - 121)	SW846 8260B
Methylcyclohexane	126	(56 - 127)	SW846 8260B
Chloroform	107	(79 - 117)	SW846 8260B
Chloromethane	80	(44 - 126)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(42 - 136)	SW846 8260B
2-Chlorotoluene	86	(76 - 116)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl tert-butyl ether	99	(52 - 144)	SW846 8260B
n-Hexane	133	(66 - 137)	SW846 8260B
4-Chlorotoluene	88	(77 - 115)	SW846 8260B
2-Chloroethyl vinyl ether	84	(52 - 131)	SW846 8260B
Acetonitrile	166	(15 - 184)	SW846 8260B
1,2-Dibromoethane	98	(79 - 113)	SW846 8260B
Acrolein	103	(51 - 170)	SW846 8260B
Vinyl acetate	94	(46 - 161)	SW846 8260B
Acrylonitrile	98	(66 - 132)	SW846 8260B
Dibromomethane	113	(81 - 120)	SW846 8260B
1,2-Dichlorobenzene	90	(81 - 110)	SW846 8260B
1,3-Dichlorobenzene	87	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	87	(82 - 110)	SW846 8260B
Iodomethane	119	(72 - 141)	SW846 8260B
Isopropyl ether	91	(77 - 118)	SW846 8260B
Dichlorodifluoromethane	82	(19 - 129)	SW846 8260B
1,1-Dichloroethane	99	(82 - 115)	SW846 8260B
1,2-Dichloroethane	119	(71 - 127)	SW846 8260B
cis-1,2-Dichloroethene	96	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	98	(83 - 117)	SW846 8260B
1,1-Dichloroethene	103	(78 - 131)	SW846 8260B
1,2-Dichloropropane	99	(81 - 115)	SW846 8260B
1,3-Dichloropropane	95	(79 - 116)	SW846 8260B
2,2-Dichloropropane	103	(50 - 129)	SW846 8260B
cis-1,3-Dichloropropene	101	(61 - 115)	SW846 8260B
trans-1,3-Dichloropropene	95	(58 - 117)	SW846 8260B
1,1-Dichloropropene	108	(83 - 114)	SW846 8260B
Ethylbenzene	96	(83 - 112)	SW846 8260B
Hexachlorobutadiene	105	(36 - 134)	SW846 8260B
Isopropylbenzene	100	(75 - 114)	SW846 8260B
p-Isopropyltoluene	99	(74 - 120)	SW846 8260B
Methylene chloride	97	(66 - 131)	SW846 8260B
Naphthalene	88	(32 - 141)	SW846 8260B
n-Propylbenzene	92	(74 - 121)	SW846 8260B
Styrene	101	(79 - 114)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(72 - 116)	SW846 8260B
1,1,2,2-Tetrachloroethane	84	(68 - 118)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tetrachloroethene	103	(79 - 114)	SW846 8260B
Toluene	85	(84 - 111)	SW846 8260B
1,2,3-Trichlorobenzene	102	(54 - 126)	SW846 8260B
1,2,4-Trichloro- benzene	101	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	113	(74 - 118)	SW846 8260B
1,1,2-Trichloroethane	94	(80 - 112)	SW846 8260B
Trichloroethene	105	(76 - 117)	SW846 8260B
Trichlorofluoromethane	138	(49 - 157)	SW846 8260B
1,2,3-Trichloropropane	87	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	93	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	90	(72 - 118)	SW846 8260B
Vinyl chloride	109	(53 - 127)	SW846 8260B
m-Xylene & p-Xylene	97	(83 - 113)	SW846 8260B
o-Xylene	98	(83 - 113)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10	9.9	ug/L	99	SW846 8260B
Acetone	20	21	ug/L	103	SW846 8260B
Bromobenzene	10	8.4	ug/L	84	SW846 8260B
Carbon disulfide	10	11	ug/L	108	SW846 8260B
1,2-Dichloroethene (total)	20	19	ug/L	97	SW846 8260B
Bromochloromethane	10	10	ug/L	103	SW846 8260B
2-Butanone	20	22	ug/L	108	SW846 8260B
Bromodichloromethane	10	11	ug/L	109	SW846 8260B
Bromoform	10	8.8	ug/L	88	SW846 8260B
Bromomethane	10	10	ug/L	104	SW846 8260B
n-Butylbenzene	10	10	ug/L	100	SW846 8260B
4-Methyl-2-pentanone	20	21	ug/L	107	SW846 8260B
2-Hexanone	20	19	ug/L	97	SW846 8260B
sec-Butylbenzene	10	9.5	ug/L	95	SW846 8260B
tert-Butylbenzene	10	10	ug/L	103	SW846 8260B
Xylenes (total)	30	29	ug/L	97	SW846 8260B
Carbon tetrachloride	10	13 a	ug/L	131	SW846 8260B
Chlorobenzene	10	9.2	ug/L	92	SW846 8260B
Dibromochloromethane	10	9.9	ug/L	99	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	16 a	ug/L	155	SW846 8260B
Methyl acetate	10	9.9	ug/L	99	SW846 8260B
Chloroethane	10	11	ug/L	112	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.9	ug/L	99	SW846 8260B
Cyclohexane	10	12	ug/L	116	SW846 8260B
Methylcyclohexane	10	13	ug/L	126	SW846 8260B
Chloroform	10	11	ug/L	107	SW846 8260B
Chloromethane	10	8.0	ug/L	80	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.5	ug/L	95	SW846 8260B
2-Chlorotoluene	10	8.6	ug/L	86	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methyl tert-butyl ether	10	9.9	ug/L	99	SW846 8260B
n-Hexane	10	13	ug/L	133	SW846 8260B
4-Chlorotoluene	10	8.8	ug/L	88	SW846 8260B
2-Chloroethyl vinyl ether	10	8.4	ug/L	84	SW846 8260B
Acetonitrile	30	50	ug/L	166	SW846 8260B
1,2-Dibromoethane	10	9.8	ug/L	98	SW846 8260B
Acrolein	30	31	ug/L	103	SW846 8260B
Vinyl acetate	10	9.4	ug/L	94	SW846 8260B
Acrylonitrile	30	29	ug/L	98	SW846 8260B
Dibromomethane	10	11	ug/L	113	SW846 8260B
1,2-Dichlorobenzene	10	9.0	ug/L	90	SW846 8260B
1,3-Dichlorobenzene	10	8.7	ug/L	87	SW846 8260B
1,4-Dichlorobenzene	10	8.7	ug/L	87	SW846 8260B
Iodomethane	10	12	ug/L	119	SW846 8260B
Isopropyl ether	10	9.1	ug/L	91	SW846 8260B
Dichlorodifluoromethane	10	8.2	ug/L	82	SW846 8260B
1,1-Dichloroethane	10	9.9	ug/L	99	SW846 8260B
1,2-Dichloroethane	10	12	ug/L	119	SW846 8260B
cis-1,2-Dichloroethene	10	9.6	ug/L	96	SW846 8260B
trans-1,2-Dichloroethene	10	9.8	ug/L	98	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	103	SW846 8260B
1,2-Dichloropropane	10	9.9	ug/L	99	SW846 8260B
1,3-Dichloropropane	10	9.5	ug/L	95	SW846 8260B
2,2-Dichloropropane	10	10	ug/L	103	SW846 8260B
cis-1,3-Dichloropropene	10	10	ug/L	101	SW846 8260B
trans-1,3-Dichloropropene	10	9.5	ug/L	95	SW846 8260B
1,1-Dichloropropene	10	11	ug/L	108	SW846 8260B
Ethylbenzene	10	9.6	ug/L	96	SW846 8260B
Hexachlorobutadiene	10	11	ug/L	105	SW846 8260B
Isopropylbenzene	10	10	ug/L	100	SW846 8260B
p-Isopropyltoluene	10	9.9	ug/L	99	SW846 8260B
Methylene chloride	10	9.7	ug/L	97	SW846 8260B
Naphthalene	10	8.8	ug/L	88	SW846 8260B
n-Propylbenzene	10	9.2	ug/L	92	SW846 8260B
Styrene	10	10	ug/L	101	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.6	ug/L	96	SW846 8260B
1,1,2,2-Tetrachloroethane	10	8.4	ug/L	84	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tetrachloroethene	10	10	ug/L	103	SW846 8260B
Toluene	10	8.5	ug/L	85	SW846 8260B
1,2,3-Trichlorobenzene	10	10	ug/L	102	SW846 8260B
1,2,4-Trichloro- benzene	10	10	ug/L	101	SW846 8260B
1,1,1-Trichloroethane	10	11	ug/L	113	SW846 8260B
1,1,2-Trichloroethane	10	9.4	ug/L	94	SW846 8260B
Trichloroethene	10	11	ug/L	105	SW846 8260B
Trichlorofluoromethane	10	14	ug/L	138	SW846 8260B
1,2,3-Trichloropropane	10	8.7	ug/L	87	SW846 8260B
1,2,4-Trimethylbenzene	10	9.3	ug/L	93	SW846 8260B
1,3,5-Trimethylbenzene	10	9.0	ug/L	90	SW846 8260B
Vinyl chloride	10	11	ug/L	109	SW846 8260B
m-Xylene & p-Xylene	20	19	ug/L	97	SW846 8260B
o-Xylene	10	9.8	ug/L	98	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7994.D
 Report Date: 10-Jan-2011 10:51

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7994.D
 Lab Smp Id: LCS
 Inj Date : 10-JAN-2011 10:34
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info : LCS
 Misc Info : P10110A,8260LLUX10,,1904,3
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 3 QC Sample: METHSPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ng)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene	96	5.113	5.113	(1.000)	1162967	50.0000		
* 2 Chlorobenzene-d5	117	7.787	7.787	(1.000)	1040159	50.0000		
* 3 1,4-Dichlorobenzene-d4	152	10.035	10.036	(1.000)	657706	50.0000		
\$ 4 Dibromofluoromethane	113	4.533	4.533	(0.887)	233807	50.9580	10.192	
\$ 5 1,2-Dichloroethane-d4	65	4.817	4.817	(0.942)	291186	54.2189	10.844	
\$ 6 Toluene-d8	98	6.474	6.474	(0.831)	955359	41.9848	8.397	
\$ 7 Bromofluorobenzene	95	8.900	8.900	(1.143)	411325	51.4884	10.298	
8 Dichlorodifluoromethane	85	1.492	1.492	(0.292)	168310	41.0640	8.213	
9 Chloromethane	50	1.611	1.611	(0.315)	215794	40.1115	8.022	
10 Vinyl Chloride	62	1.705	1.717	(0.334)	271612	54.2763	10.855	
11 Bromomethane	94	1.989	1.989	(0.389)	126088	51.8233	10.365	
12 Chloroethane	64	2.084	2.084	(0.408)	171971	56.1182	11.224	
13 Trichlorofluoromethane	101	2.297	2.297	(0.449)	308384	68.7990	13.760	
15 Acrolein	56	2.604	2.605	(0.509)	117241	153.976	30.795	
16 Acetone	43	2.735	2.735	(0.535)	148535	103.364	20.673	
17 1,1-Dichloroethene	96	2.711	2.711	(0.530)	257213	51.6899	10.338	
18 Freon-113	151	2.735	2.735	(0.535)	265295	77.5721	15.514	
19 Iodomethane	142	2.841	2.841	(0.556)	438683	59.5026	11.900	
20 Carbon Disulfide	76	2.912	2.912	(0.570)	746559	54.1214	10.824	
21 Methylene Chloride	84	3.101	3.102	(0.607)	288005	48.4447	9.689	

22 Acetonitrile	41	2.959	2.960 (0.579)	93526	248.790	49.758
23 Acrylonitrile	53	3.279	3.279 (0.641)	261097	147.416	29.483

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7994.D
 Report Date: 10-Jan-2011 10:51

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)		
=====	=====	=====	=====	=====	=====	=====	=====		
24 Methyl tert-butyl ether	73	3.338	3.338	(0.653)	692938	49.5203	9.904		
25 trans-1,2-Dichloroethene	96	3.338	3.338	(0.653)	278817	49.0550	9.811		
26 Hexane	86	3.563	3.575	(0.697)	68091	66.6378	13.328		
27 Vinyl acetate	43	3.729	3.705	(0.729)	675399	110.431	22.086		
28 1,1-Dichloroethane	63	3.669	3.681	(0.718)	447026	49.4262	9.885		
29 tert-Butyl Alcohol	59	3.172	3.173	(0.621)	350097	1355.24	271.05		
30 2-Butanone	43	4.143	4.143	(0.810)	192824	107.922	21.584		
M 31 1,2-Dichloroethene (total)	96				554421	97.2273	19.445		
32 cis-1,2-dichloroethene	96	4.155	4.155	(0.813)	275604	48.1723	9.634		
33 2,2-Dichloropropane	77	4.155	4.167	(0.813)	259991	51.3823	10.276		
34 Bromochloromethane	128	4.344	4.344	(0.850)	141139	51.2964	10.259		
35 Chloroform	83	4.403	4.403	(0.861)	456750	53.3400	10.668		
36 Tetrahydrofuran	42	4.391	4.391	(0.859)	58110	47.3998	9.480		
37 1,1,1-Trichloroethane	97	4.581	4.581	(0.896)	371582	56.6198	11.324		
38 1,1-Dichloropropene	75	4.711	4.723	(0.921)	356075	54.1912	10.838		
39 Carbon Tetrachloride	117	4.723	4.735	(0.924)	330115	65.5985	13.120		
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	363754	59.3077	11.862		
41 Benzene	78	4.888	4.888	(0.956)	1065676	49.3654	9.873		
42 Trichloroethene	130	5.421	5.433	(1.060)	289024	52.6017	10.520		
43 1,2-Dichloropropane	63	5.610	5.610	(1.097)	244661	49.7437	9.949		
44 1,4-Dioxane	88	Compound Not Detected.							
45 Dibromomethane	93	5.705	5.705	(1.116)	154803	56.3064	11.261		
46 Bromodichloromethane	83	5.835	5.835	(1.141)	299298	54.3351	10.867		
47 2-Chloroethyl vinyl ether	63	6.083	6.083	(1.190)	108975	41.7954	8.359		
48 cis-1,3-Dichloropropene	75	6.225	6.225	(1.218)	334172	50.7311	10.146		
49 4-Methyl-2-pentanone	43	6.355	6.356	(1.243)	371039	107.320	21.464		
50 Toluene	91	6.533	6.533	(0.839)	1149742	42.6183	8.524		
51 trans-1,3-Dichloropropene	75	6.710	6.711	(0.862)	319593	47.6871	9.537		
52 Ethyl Methacrylate	69	Compound Not Detected.							
53 1,1,2-Trichloroethane	97	6.876	6.876	(0.883)	240190	47.2400	9.448		
54 1,3-Dichloropropane	76	7.030	7.030	(0.903)	423509	47.2582	9.452		
55 Tetrachloroethene	164	7.042	7.042	(0.904)	283343	51.4523	10.290		
56 2-Hexanone	43	7.089	7.101	(0.910)	271097	96.8578	19.372		
57 Dibromochloromethane	129	7.243	7.243	(0.930)	229868	49.5846	9.917		
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	237214	49.1807	9.836		
59 Chlorobenzene	112	7.823	7.823	(1.005)	817169	46.2267	9.245		
60 1,1,1,2-Tetrachloroethane	131	7.882	7.882	(1.012)	267782	48.0353	9.607		
61 Ethylbenzene	106	7.917	7.918	(1.017)	441541	48.1004	9.620		
62 m + p-Xylene	106	8.024	8.024	(1.030)	1122999	96.9614	19.392		
M 63 Xylenes (total)	106				1670595	145.748	29.150		
64 Xylene-o	106	8.403	8.403	(1.079)	547596	48.7871	9.757		
65 Styrene	104	8.414	8.415	(1.081)	875376	50.5740	10.115		
66 Bromoform	173	8.592	8.592	(1.103)	132125	43.8748	8.775		
67 Isopropylbenzene	105	8.758	8.758	(1.125)	1383954	49.7886	9.958		
68 1,1,2,2-Tetrachloroethane	83	9.018	9.018	(0.899)	308901	42.0585	8.412		
69 1,4-Dichloro-2-butene	53	9.077	9.077	(0.904)	142644	112.096	22.419		
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	101023	43.7067	8.741		
71 Bromobenzene	156	9.053	9.053	(0.902)	362143	42.2273	8.445		
72 n-Propylbenzene	120	9.160	9.160	(0.913)	400858	46.2488	9.250		
73 2-Chlorotoluene	126	9.243	9.243	(0.921)	343004	42.7772	8.555		
74 1,3,5-Trimethylbenzene	105	9.325	9.326	(0.929)	1182746	44.9313	8.986		
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	363211	43.8128	8.762		

76 tert-Butylbenzene	119	9.645	9.645 (0.961)	1140924	51.2789	10.256
77 1,2,4-Trimethylbenzene	105	9.692	9.692 (0.966)	1237724	46.2704	9.254

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7994.D
 Report Date: 10-Jan-2011 10:51

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
78 sec-Butylbenzene	105	9.858	9.870	(0.982)	1410902		47.3677	9.474
79 4-Isopropyltoluene	119	10.000	10.000	(0.996)	1258629		49.6466	9.929
80 1,3-Dichlorobenzene	146	9.976	9.976	(0.994)	704082		43.3062	8.661
81 1,4-Dichlorobenzene	146	10.059	10.059	(1.002)	740169		43.4447	8.689
82 n-Butylbenzene	91	10.414	10.414	(1.038)	996092		49.9834	9.997
83 1,2-Dichlorobenzene	146	10.426	10.426	(1.039)	691862		44.9078	8.982
84 1,2-Dibromo-3-chloropropane	157	11.195	11.195	(1.116)	53429		47.7341	9.547
85 1,2,4-Trichlorobenzene	180	12.035	12.035	(1.199)	462322		50.3500	10.070
86 Hexachlorobutadiene	225	12.213	12.213	(1.217)	176564		52.7331	10.547
87 Naphthalene	128	12.284	12.284	(1.224)	996607		43.8064	8.761
88 1,2,3-Trichlorobenzene	180	12.532	12.532	(1.249)	428482		50.8895	10.178
14 Dichlorofluoromethane	67	Compound Not Detected.						
89 Ethyl Ether	59	2.510	2.510	(0.491)	208383		47.7014	9.540
91 3-Chloropropene	76	2.912	3.007	(0.570)	746559		269.555	53.911
92 Isopropyl Ether	87	3.729	3.728	(0.729)	222594		45.7406	9.148
93 2-Chloro-1,3-butadiene	53	3.563	3.752	(0.697)	12778		1.58832	0.3177
94 Propionitrile	54	Compound Not Detected.						
95 Ethyl Acetate	43	4.143	4.190	(0.810)	192824		50.5379	10.108
96 Methacrylonitrile	41	Compound Not Detected.						
97 Isobutanol	41	4.758	4.758	(0.611)	341959		2228.09	445.62
99 n-Butanol	56	5.113	5.314	(0.657)	7637		63.8065	12.761
100 Methyl Methacrylate	41	5.610	5.693	(1.097)	361277		106.047	21.209
101 2-Nitropropane	41	6.083	6.012	(1.190)	8263		13.1500	2.630
103 Cyclohexanone	55	8.829	8.840	(0.880)	169886		702.143	140.43
98 Cyclohexane	56	4.652	4.652	(0.910)	441392		57.8562	11.571
143 Methyl Acetate	43	3.007	3.007	(0.588)	177722		49.3668	9.873
144 Methylcyclohexane	83	5.610	5.610	(1.097)	457462		63.0710	12.614
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.						
146 2-Methylnaphthalene	142	13.562	13.562	(1.351)	19843		4.20135	0.8403(a)
149 Vinyl Acetate-86	86	3.705	3.705	(0.725)	34397		47.2358	9.447
153 t-Butyl ethyl ether	59	Compound Not Detected.						
154 t-Amyl methyl ether	73	5.113	4.971	(1.000)	15466		1.05472	0.2109(a)
155 1,2,3-Trimethylbenzene	105	10.106	10.106	(1.007)	1267881		52.8405	10.568

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7994.D
 Report Date: 10-Jan-2011 10:51

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX7994.D Calibration Time: 09:51
 Lab Smp Id: LCS Level: LOW
 Analysis Type: VOA Sample Type: WATER
 Quant Type: ISTD Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,,1904,3

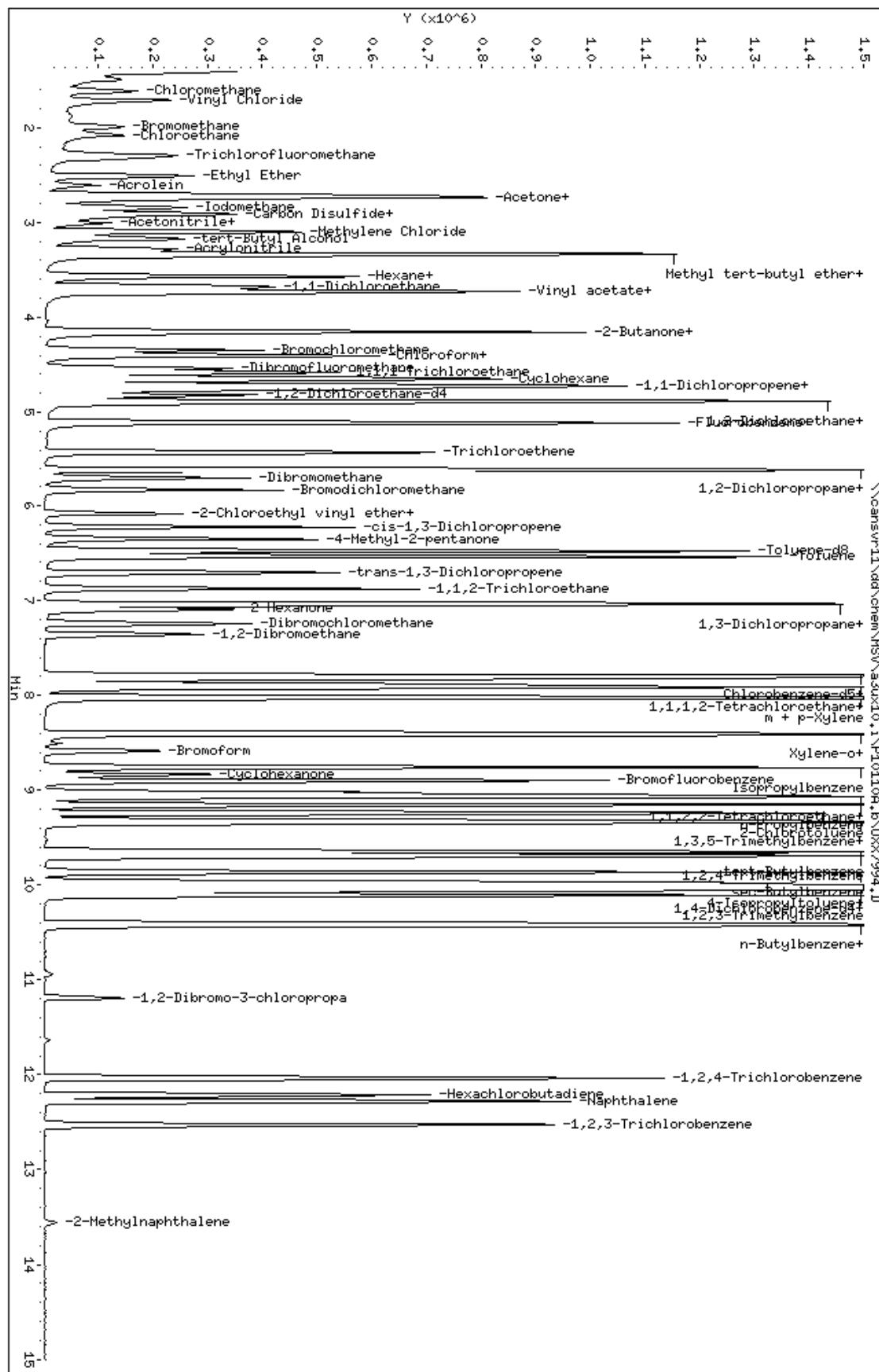
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1162967	-15.12
2 Chlorobenzene-d5	1084996	542498	2169992	1040159	-4.13
3 1,4-Dichlorobenze	659942	329971	1319884	657706	-0.34

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.00
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\P10110A.b\UX7994.D
 Date: 10-JAN-2011 10:34
 Client ID:
 Sample Info: LCS
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
MB Lot-Sample #: A1A100000-112

Work Order #...: MC6XD1AA

Matrix.....: WATER

Analysis Date...: 01/10/11

Prep Date.....: 01/10/11

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 1010112

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1A070479

Work Order #...: MC6XD1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
n-Propylbenzene	ND	1.0	ug/L	SW846	8260B
Styrene	ND	1.0	ug/L	SW846	8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
Tetrachloroethene	ND	1.0	ug/L	SW846	8260B
Toluene	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846	8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846	8260B
Trichloroethene	ND	1.0	ug/L	SW846	8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846	8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
Vinyl chloride	ND	1.0	ug/L	SW846	8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846	8260B
o-Xylene	ND	1.0	ug/L	SW846	8260B
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
Dibromofluoromethane	96		(75 - 121)		
1,2-Dichloroethane-d4	96		(63 - 129)		
Toluene-d8	92		(74 - 115)		
4-Bromofluorobenzene	88		(66 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7995.D
 Report Date: 10-Jan-2011 11:30

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7995.D
 Lab Smp Id: VBLK
 Inj Date : 10-JAN-2011 10:56
 Operator : 1904 Inst ID: a3ux10.i
 Smp Info : VBLK,5ML/5ML
 Misc Info : P10110A,8260LLUX10,,1904,3,,BLANK,,0
 Comment :
 Method : \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 a3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 4 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL		
	MASS					(ng)	(ug/L)		
=====	=====	=====	=====	=====	=====	=====	=====		
* 1 Fluorobenzene	96	5.113	5.113	(1.000)	1257690	50.0000			
* 2 Chlorobenzene-d5	117	7.787	7.787	(1.000)	920947	50.0000			
* 3 1,4-Dichlorobenzene-d4	152	10.035	10.036	(1.000)	551091	50.0000			
\$ 4 Dibromofluoromethane	113	4.533	4.533	(0.887)	237314	47.8269	9.565		
\$ 5 1,2-Dichloroethane-d4	65	4.829	4.817	(0.944)	279184	48.0689	9.614		
\$ 6 Toluene-d8	98	6.473	6.474	(0.831)	926297	45.9770	9.195		
\$ 7 Bromofluorobenzene	95	8.899	8.900	(1.143)	312533	44.1860	8.837		
8 Dichlorodifluoromethane	85	Compound Not Detected.							
9 Chloromethane	50	Compound Not Detected.							
10 Vinyl Chloride	62	Compound Not Detected.							
11 Bromomethane	94	Compound Not Detected.							
12 Chloroethane	64	Compound Not Detected.							
13 Trichlorofluoromethane	101	Compound Not Detected.							
15 Acrolein	56	Compound Not Detected.							
16 Acetone	43	Compound Not Detected.							
17 1,1-Dichloroethene	96	Compound Not Detected.							
18 Freon-113	151	Compound Not Detected.							
19 Iodomethane	142	Compound Not Detected.							
20 Carbon Disulfide	76	Compound Not Detected.							
21 Methylene Chloride	84	3.101	3.102	(0.607)	18553	2.88572	0.5771		

22 Acetonitrile	41	Compound Not Detected.
23 Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7995.D
 Report Date: 10-Jan-2011 11:30

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73				Compound Not Detected.		
25 trans-1,2-Dichloroethene	96				Compound Not Detected.		
26 Hexane	86				Compound Not Detected.		
27 Vinyl acetate	43				Compound Not Detected.		
28 1,1-Dichloroethane	63				Compound Not Detected.		
29 tert-Butyl Alcohol	59				Compound Not Detected.		
30 2-Butanone	43				Compound Not Detected.		
M 31 1,2-Dichloroethene (total)	96				Compound Not Detected.		
32 cis-1,2-dichloroethene	96				Compound Not Detected.		
33 2,2-Dichloropropane	77				Compound Not Detected.		
34 Bromochloromethane	128				Compound Not Detected.		
35 Chloroform	83				Compound Not Detected.		
36 Tetrahydrofuran	42				Compound Not Detected.		
37 1,1,1-Trichloroethane	97				Compound Not Detected.		
38 1,1-Dichloropropene	75				Compound Not Detected.		
39 Carbon Tetrachloride	117				Compound Not Detected.		
40 1,2-Dichloroethane	62				Compound Not Detected.		
41 Benzene	78				Compound Not Detected.		
42 Trichloroethene	130				Compound Not Detected.		
43 1,2-Dichloropropane	63				Compound Not Detected.		
44 1,4-Dioxane	88				Compound Not Detected.		
45 Dibromomethane	93				Compound Not Detected.		
46 Bromodichloromethane	83				Compound Not Detected.		
47 2-Chloroethyl vinyl ether	63				Compound Not Detected.		
48 cis-1,3-Dichloropropene	75				Compound Not Detected.		
49 4-Methyl-2-pentanone	43				Compound Not Detected.		
50 Toluene	91				Compound Not Detected.		
51 trans-1,3-Dichloropropene	75				Compound Not Detected.		
52 Ethyl Methacrylate	69				Compound Not Detected.		
53 1,1,2-Trichloroethane	97				Compound Not Detected.		
54 1,3-Dichloropropane	76				Compound Not Detected.		
55 Tetrachloroethene	164				Compound Not Detected.		
56 2-Hexanone	43				Compound Not Detected.		
57 Dibromochloromethane	129				Compound Not Detected.		
58 1,2-Dibromoethane	107				Compound Not Detected.		
59 Chlorobenzene	112				Compound Not Detected.		
60 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
61 Ethylbenzene	106				Compound Not Detected.		
62 m + p-Xylene	106				Compound Not Detected.		
M 63 Xylenes (total)	106				Compound Not Detected.		
64 Xylene-o	106				Compound Not Detected.		
65 Styrene	104				Compound Not Detected.		
66 Bromoform	173				Compound Not Detected.		
67 Isopropylbenzene	105				Compound Not Detected.		
68 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
69 1,4-Dichloro-2-butene	53				Compound Not Detected.		
70 1,2,3-Trichloropropane	110				Compound Not Detected.		
71 Bromobenzene	156				Compound Not Detected.		
72 n-Propylbenzene	120				Compound Not Detected.		
73 2-Chlorotoluene	126				Compound Not Detected.		
74 1,3,5-Trimethylbenzene	105				Compound Not Detected.		
75 4-Chlorotoluene	126				Compound Not Detected.		

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX7995.D
 Report Date: 10-Jan-2011 11:30

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
78 sec-Butylbenzene	105	Compound	Not	Detected.				
79 4-Isopropyltoluene	119	Compound	Not	Detected.				
80 1,3-Dichlorobenzene	146	Compound	Not	Detected.				
81 1,4-Dichlorobenzene	146	Compound	Not	Detected.				
82 n-Butylbenzene	91	Compound	Not	Detected.				
83 1,2-Dichlorobenzene	146	Compound	Not	Detected.				
84 1,2-Dibromo-3-chloropropane	157	Compound	Not	Detected.				
85 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.				
86 Hexachlorobutadiene	225	Compound	Not	Detected.				
87 Naphthalene	128	12.283	12.284	(1.224)	10471	3.13686	0.6274	
88 1,2,3-Trichlorobenzene	180	Compound	Not	Detected.				
14 Dichlorofluoromethane	67	Compound	Not	Detected.				
89 Ethyl Ether	59	Compound	Not	Detected.				
91 3-Chloropropene	76	Compound	Not	Detected.				
92 Isopropyl Ether	87	Compound	Not	Detected.				
93 2-Chloro-1,3-butadiene	53	Compound	Not	Detected.				
94 Propionitrile	54	Compound	Not	Detected.				
95 Ethyl Acetate	43	Compound	Not	Detected.				
96 Methacrylonitrile	41	Compound	Not	Detected.				
97 Isobutanol	41	Compound	Not	Detected.				
99 n-Butanol	56	Compound	Not	Detected.				
100 Methyl Methacrylate	41	Compound	Not	Detected.				
101 2-Nitropropane	41	Compound	Not	Detected.				
103 Cyclohexanone	55	Compound	Not	Detected.				
98 Cyclohexane	56	Compound	Not	Detected.				
143 Methyl Acetate	43	Compound	Not	Detected.				
144 Methylcyclohexane	83	Compound	Not	Detected.				
141 1,3,5-Trichlorobenzene	180	Compound	Not	Detected.				
146 2-Methylnaphthalene	142	Compound	Not	Detected.				
149 Vinyl Acetate-86	86	Compound	Not	Detected.				
153 t-Butyl ethyl ether	59	Compound	Not	Detected.				
154 t-Amyl methyl ether	73	Compound	Not	Detected.				
155 1,2,3-Trimethylbenzene	105	Compound	Not	Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX7995.D
 Report Date: 10-Jan-2011 11:30

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX7995.D Calibration Time: 09:51
 Lab Smp Id: VBLK Level: LOW
 Analysis Type: VOA Sample Type: WATER
 Quant Type: ISTD Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,,1904,3,,BLANK,,0

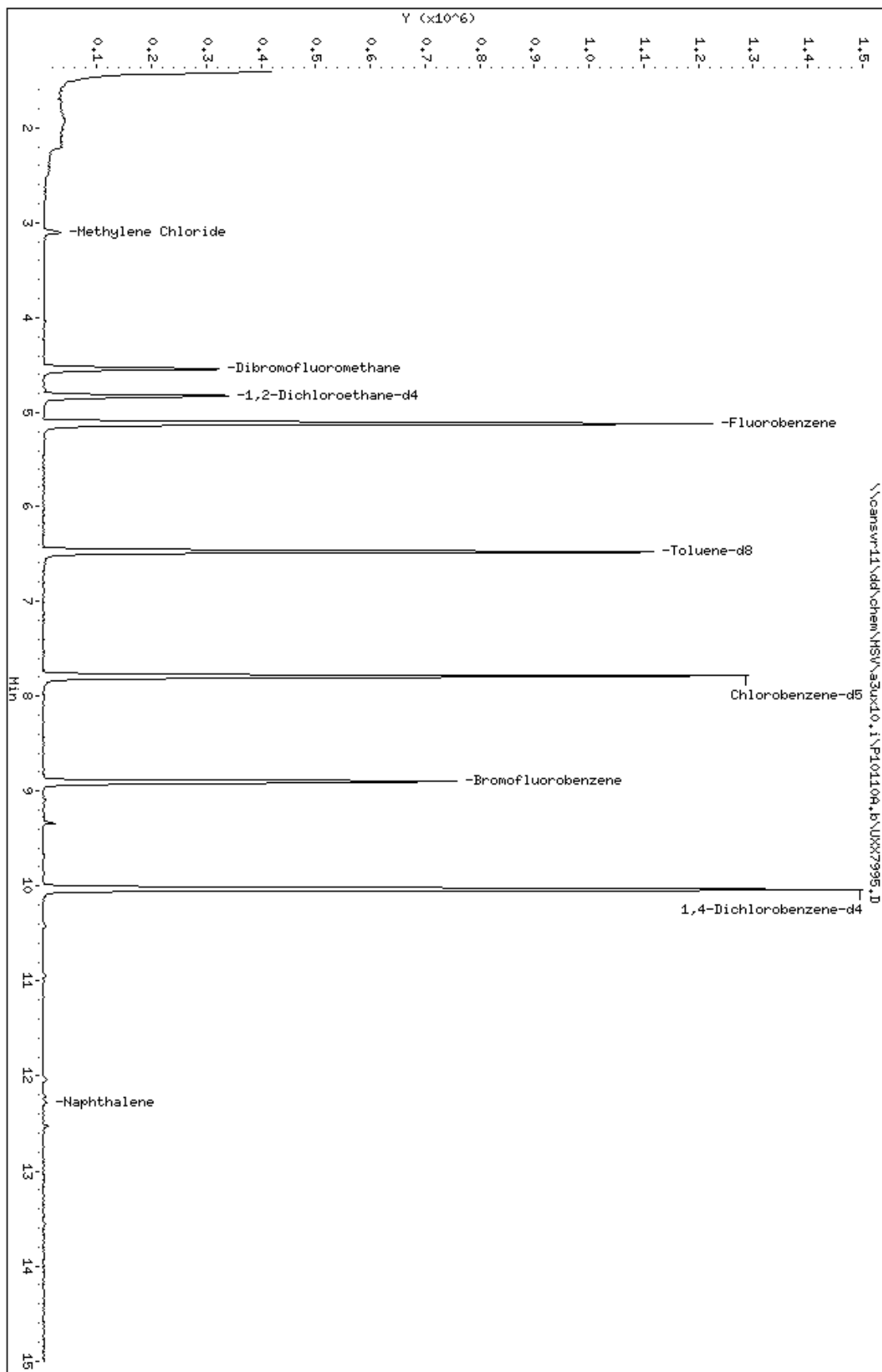
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1257690	-8.20
2 Chlorobenzene-d5	1084996	542498	2169992	920947	-15.12
3 1,4-Dichlorobenze	659942	329971	1319884	551091	-16.49

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.01
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33x10.i\P101109.b\UX7995.D
Date : 10-JAN-2011 10:56
Client ID:
Sample Info: VBLK,SHL/SHL
Purge Volume: 5.0
Column phase: DB624

Instrument: 33x10.i
Operator: 1904
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7995.D

Date : 10-JAN-2011 10:56

Client ID:

Instrument: a3ux10.i

Sample Info: VBLK,5ML/5ML

Purge Volume: 5.0

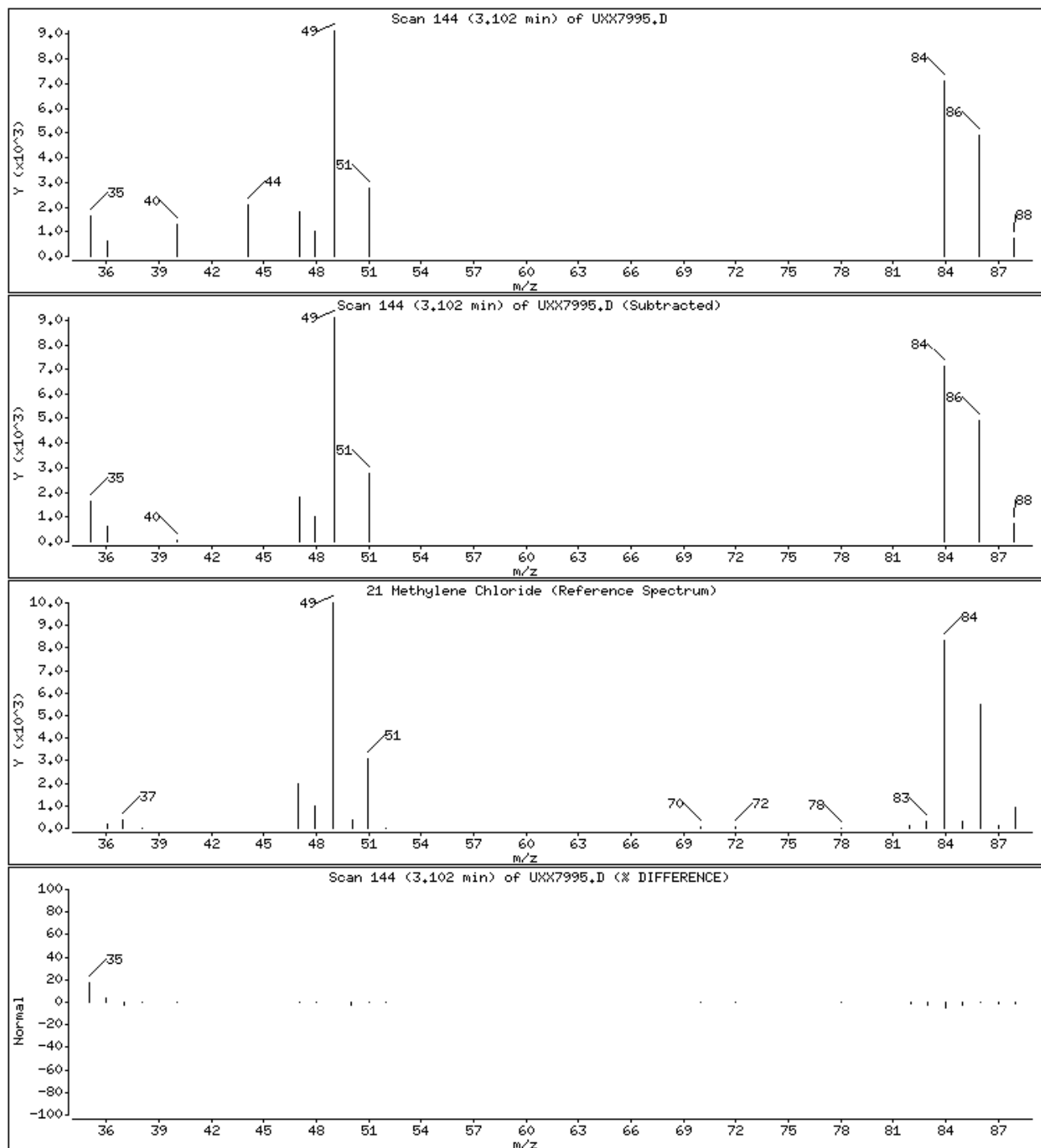
Operator: 1904

Column phase: DB624

Column diameter: 0.18

21 Methylene Chloride

Concentration: 0.5771 ug/L



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A,b\UXX7995.D

Date : 10-JAN-2011 10:56

Client ID:

Instrument: a3ux10.i

Sample Info: VBLK,5ML/5ML

Purge Volume: 5.0

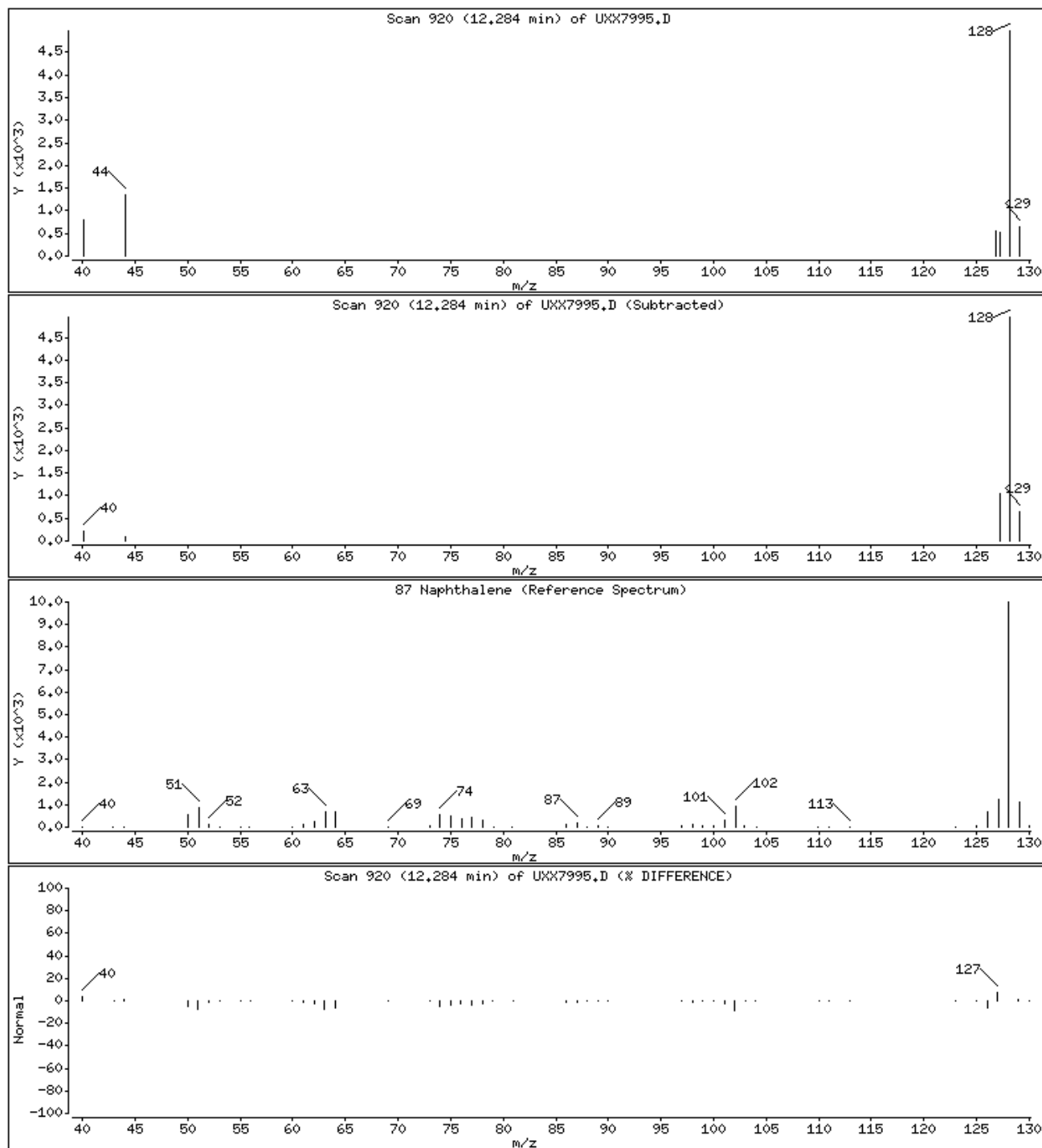
Operator: 1904

Column phase: DB624

Column diameter: 0.18

87 Naphthalene

Concentration: 0.6274 ug/L



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	98	(72 - 121)			SW846 8260B
	106	(72 - 121)	7.4	(0-30)	SW846 8260B
Bromobenzene	85	(71 - 116)			SW846 8260B
	89	(71 - 116)	4.8	(0-30)	SW846 8260B
Acetone	76	(33 - 145)			SW846 8260B
	84	(33 - 145)	8.3	(0-30)	SW846 8260B
Carbon disulfide	95	(57 - 147)			SW846 8260B
	101	(57 - 147)	6.2	(0-30)	SW846 8260B
Bromochloromethane	96	(73 - 121)			SW846 8260B
	105	(73 - 121)	9.1	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	92	(75 - 119)			SW846 8260B
	92	(75 - 119)	0.30	(0-30)	SW846 8260B
Bromodichloromethane	99	(67 - 120)			SW846 8260B
	104	(67 - 120)	4.8	(0-30)	SW846 8260B
2-Butanone	105	(54 - 129)			SW846 8260B
	112	(54 - 129)	6.8	(0-30)	SW846 8260B
Bromoform	77	(32 - 128)			SW846 8260B
	79	(32 - 128)	2.6	(0-30)	SW846 8260B
Bromomethane	94	(10 - 186)			SW846 8260B
	101	(10 - 186)	7.5	(0-30)	SW846 8260B
n-Butylbenzene	98	(56 - 127)			SW846 8260B
	104	(56 - 127)	6.8	(0-30)	SW846 8260B
4-Methyl-2-pentanone	103	(56 - 131)			SW846 8260B
	107	(56 - 131)	3.9	(0-30)	SW846 8260B
sec-Butylbenzene	92	(60 - 119)			SW846 8260B
	98	(60 - 119)	6.4	(0-30)	SW846 8260B
2-Hexanone	89	(47 - 139)			SW846 8260B
	92	(47 - 139)	4.0	(0-30)	SW846 8260B
tert-Butylbenzene	92	(61 - 119)			SW846 8260B
	97	(61 - 119)	5.6	(0-30)	SW846 8260B
Carbon tetrachloride	107	(59 - 129)			SW846 8260B
	110	(59 - 129)	3.1	(0-30)	SW846 8260B
Xylenes (total)	93	(76 - 116)			SW846 8260B
	104	(76 - 116)	11	(0-30)	SW846 8260B
Chlorobenzene	89	(80 - 110)			SW846 8260B
	98	(80 - 110)	9.1	(0-30)	SW846 8260B
Dibromochloromethane	87	(56 - 118)			SW846 8260B
	95	(56 - 118)	9.1	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	125	(70 - 152)			SW846 8260B
	116	(70 - 152)	7.0	(0-30)	SW846 8260B
Methyl acetate	85	(47 - 130)			SW846 8260B
	89	(47 - 130)	5.1	(0-30)	SW846 8260B
Chloroethane	104	(21 - 165)			SW846 8260B
	112	(21 - 165)	7.1	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	87	(46 - 144)			SW846 8260B
	94	(46 - 144)	7.9	(0-30)	SW846 8260B
Cyclohexane	114	(49 - 123)			SW846 8260B
	110	(49 - 123)	4.2	(0-30)	SW846 8260B
Methylcyclohexane	122	(49 - 127)			SW846 8260B
	111	(49 - 127)	9.7	(0-30)	SW846 8260B
Chloroform	98	(76 - 118)			SW846 8260B
	106	(76 - 118)	7.6	(0-30)	SW846 8260B
Chloromethane	64	(33 - 132)			SW846 8260B
	71	(33 - 132)	9.2	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(32 - 139)			SW846 8260B
	102	(32 - 139)	7.2	(0-30)	SW846 8260B
2-Chlorotoluene	86	(69 - 117)			SW846 8260B
	91	(69 - 117)	5.9	(0-30)	SW846 8260B
Methyl tert-butyl ether	87	(46 - 144)			SW846 8260B
	94	(46 - 144)	7.9	(0-30)	SW846 8260B
n-Hexane	134	(54 - 138)			SW846 8260B
	102	(54 - 138)	27	(0-30)	SW846 8260B
4-Chlorotoluene	87	(71 - 116)			SW846 8260B
	91	(71 - 116)	5.2	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	89 p	(10 - 150)	200	(0-30)	SW846 8260B
Acetonitrile	127	(12 - 182)			SW846 8260B
	132	(12 - 182)	4.5	(0-30)	SW846 8260B
1,2-Dibromoethane	92	(74 - 113)			SW846 8260B
	97	(74 - 113)	6.0	(0-30)	SW846 8260B
Acrolein	91	(47 - 168)			SW846 8260B
	91	(47 - 168)	0.98	(0-30)	SW846 8260B
Acrylonitrile	88	(62 - 133)			SW846 8260B
	88	(62 - 133)	0.01	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl acetate	128	(43 - 157)			SW846 8260B
	118	(43 - 157)	8.6	(0-30)	SW846 8260B
Dibromomethane	105	(77 - 121)			SW846 8260B
	109	(77 - 121)	4.5	(0-30)	SW846 8260B
1,2-Dichlorobenzene	88	(75 - 111)			SW846 8260B
	97	(75 - 111)	11	(0-30)	SW846 8260B
1,3-Dichlorobenzene	85	(73 - 110)			SW846 8260B
	94	(73 - 110)	9.4	(0-30)	SW846 8260B
1,4-Dichlorobenzene	86	(75 - 110)			SW846 8260B
	92	(75 - 110)	7.4	(0-30)	SW846 8260B
Iodomethane	102	(66 - 144)			SW846 8260B
	116	(66 - 144)	13	(0-30)	SW846 8260B
Isopropyl ether	90	(73 - 118)			SW846 8260B
	85	(73 - 118)	4.9	(0-30)	SW846 8260B
Dichlorodifluoromethane	66	(17 - 128)			SW846 8260B
	58	(17 - 128)	12	(0-30)	SW846 8260B
1,1-Dichloroethane	99	(79 - 116)			SW846 8260B
	91	(79 - 116)	7.6	(0-30)	SW846 8260B
1,2-Dichloroethane	103	(68 - 129)			SW846 8260B
	110	(68 - 129)	6.9	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	97	(70 - 120)			SW846 8260B
	94	(70 - 120)	3.4	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	86	(80 - 119)			SW846 8260B
	90	(80 - 119)	4.5	(0-30)	SW846 8260B
1,1-Dichloroethene	90	(74 - 135)			SW846 8260B
	92	(74 - 135)	2.8	(0-30)	SW846 8260B
1,2-Dichloropropane	99	(78 - 115)			SW846 8260B
	106	(78 - 115)	6.8	(0-30)	SW846 8260B
1,3-Dichloropropane	90	(74 - 118)			SW846 8260B
	97	(74 - 118)	7.9	(0-30)	SW846 8260B
2,2-Dichloropropane	96	(38 - 127)			SW846 8260B
	104	(38 - 127)	7.9	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	90	(51 - 110)			SW846 8260B
	99	(51 - 110)	9.2	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	93	(46 - 116)			SW846 8260B
	98	(46 - 116)	6.1	(0-30)	SW846 8260B
1,1-Dichloropropene	109	(80 - 114)			SW846 8260B
	109	(80 - 114)	0.50	(0-30)	SW846 8260B
Ethylbenzene	92	(75 - 116)			SW846 8260B
	102	(75 - 116)	10	(0-30)	SW846 8260B
Hexachlorobutadiene	103	(27 - 132)			SW846 8260B
	107	(27 - 132)	4.3	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Isopropylbenzene	95	(68 - 116)			SW846 8260B
	106	(68 - 116)	11	(0-30)	SW846 8260B
p-Isopropyltoluene	97	(64 - 122)			SW846 8260B
	105	(64 - 122)	8.6	(0-30)	SW846 8260B
Methylene chloride	79	(63 - 128)			SW846 8260B
	88	(63 - 128)	10	(0-30)	SW846 8260B
Naphthalene	88	(15 - 158)			SW846 8260B
	100	(15 - 158)	13	(0-30)	SW846 8260B
n-Propylbenzene	91	(64 - 124)			SW846 8260B
	95	(64 - 124)	4.9	(0-30)	SW846 8260B
Styrene	95	(71 - 117)			SW846 8260B
	104	(71 - 117)	9.6	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	90	(64 - 118)			SW846 8260B
	101	(64 - 118)	12	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	85	(63 - 122)			SW846 8260B
	89	(63 - 122)	3.7	(0-30)	SW846 8260B
Tetrachloroethene	97	(70 - 117)			SW846 8260B
	104	(70 - 117)	7.1	(0-30)	SW846 8260B
Toluene	90	(78 - 114)			SW846 8260B
	101	(78 - 114)	11	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	98	(45 - 129)			SW846 8260B
	115	(45 - 129)	16	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	95	(38 - 138)			SW846 8260B
	114	(38 - 138)	17	(0-30)	SW846 8260B
1,1,1-Trichloroethane	101	(68 - 121)			SW846 8260B
	107	(68 - 121)	6.2	(0-30)	SW846 8260B
1,1,2-Trichloroethane	91	(75 - 115)			SW846 8260B
	100	(75 - 115)	9.6	(0-30)	SW846 8260B
Trichloroethene	105	(66 - 120)			SW846 8260B
	106	(66 - 120)	1.4	(0-30)	SW846 8260B
Trichlorofluoromethane	117	(46 - 157)			SW846 8260B
	108	(46 - 157)	5.5	(0-30)	SW846 8260B
1,2,3-Trichloropropane	90	(67 - 132)			SW846 8260B
	90	(67 - 132)	0.30	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	91	(67 - 124)			SW846 8260B
	101	(67 - 124)	9.9	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	89	(63 - 121)			SW846 8260B
	97	(63 - 121)	8.6	(0-30)	SW846 8260B
Vinyl chloride	86	(49 - 130)			SW846 8260B
	92	(49 - 130)	6.8	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
m-Xylene & p-Xylene	93	(75 - 117)			SW846 8260B
	104	(75 - 117)	10	(0-30)	SW846 8260B
o-Xylene	93	(76 - 116)			SW846 8260B
	106	(76 - 116)	14	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
	92	(63 - 129)
Toluene-d8	91	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)
	99	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	11	ug/L	106	7.4	SW846 8260B
Bromobenzene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	4.8	SW846 8260B
Acetone	ND	20	19	ug/L	76		SW846 8260B
	ND	20	21	ug/L	84	8.3	SW846 8260B
Carbon disulfide	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	101	6.2	SW846 8260B
Bromochloromethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	105	9.1	SW846 8260B
1,2-Dichloroethene (total)	ND	20	19	ug/L	92		SW846 8260B
	ND	20	19	ug/L	92	0.30	SW846 8260B
Bromodichloromethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	104	4.8	SW846 8260B
2-Butanone	ND	20	21	ug/L	105		SW846 8260B
	ND	20	22	ug/L	112	6.8	SW846 8260B
Bromoform	ND	10	7.7	ug/L	77		SW846 8260B
	ND	10	7.9	ug/L	79	2.6	SW846 8260B
Bromomethane	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	10	ug/L	101	7.5	SW846 8260B
n-Butylbenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	104	6.8	SW846 8260B
4-Methyl-2-pentanone	ND	20	21	ug/L	103		SW846 8260B
	ND	20	21	ug/L	107	3.9	SW846 8260B
sec-Butylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.8	ug/L	98	6.4	SW846 8260B
2-Hexanone	ND	20	18	ug/L	89		SW846 8260B
	ND	20	18	ug/L	92	4.0	SW846 8260B
tert-Butylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.7	ug/L	97	5.6	SW846 8260B
Carbon tetrachloride	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	110	3.1	SW846 8260B
Xylenes (total)	ND	30	28	ug/L	93		SW846 8260B
	ND	30	31	ug/L	104	11	SW846 8260B
Chlorobenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.8	ug/L	98	9.1	SW846 8260B
Dibromochloromethane	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.5	ug/L	95	9.1	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	13	ug/L	125		SW846 8260B
	ND	10	12	ug/L	116	7.0	SW846 8260B
Methyl acetate	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	5.1	SW846 8260B
Chloroethane	ND	10	10	ug/L	104		SW846 8260B
	ND	10	11	ug/L	112	7.1	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.4	ug/L	94	7.9	SW846 8260B
Cyclohexane	ND	10	11	ug/L	114		SW846 8260B
	ND	10	11	ug/L	110	4.2	SW846 8260B
Methylcyclohexane	ND	10	12	ug/L	122		SW846 8260B
	ND	10	11	ug/L	111	9.7	SW846 8260B
Chloroform	ND	10	10	ug/L	98		SW846 8260B
	ND	10	11	ug/L	106	7.6	SW846 8260B
Chloromethane	ND	10	6.4	ug/L	64		SW846 8260B
	ND	10	7.1	ug/L	71	9.2	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	102	7.2	SW846 8260B
2-Chlorotoluene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.1	ug/L	91	5.9	SW846 8260B
Methyl tert-butyl ether	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.4	ug/L	94	7.9	SW846 8260B
n-Hexane	ND	10	13	ug/L	134		SW846 8260B
	ND	10	10	ug/L	102	27	SW846 8260B
4-Chlorotoluene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.1	ug/L	91	5.2	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	0.0	ug/L	0.0 a		SW846 8260B
	ND	10	8.9	ug/L	89 p	200	SW846 8260B
Acetonitrile	ND	30	38	ug/L	127		SW846 8260B
	ND	30	40	ug/L	132	4.5	SW846 8260B
1,2-Dibromoethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.7	ug/L	97	6.0	SW846 8260B
Acrolein	ND	30	27	ug/L	91		SW846 8260B
	ND	30	27	ug/L	91	0.98	SW846 8260B
Acrylonitrile	ND	30	26	ug/L	88		SW846 8260B
	ND	30	26	ug/L	88	0.01	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Vinyl acetate	ND	10	13	ug/L	128		SW846 8260B
	ND	10	12	ug/L	118	8.6	SW846 8260B
Dibromomethane	ND	10	10	ug/L	105		SW846 8260B
	ND	10	11	ug/L	109	4.5	SW846 8260B
1,2-Dichlorobenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.7	ug/L	97	11	SW846 8260B
1,3-Dichlorobenzene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	9.4	ug/L	94	9.4	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.2	ug/L	92	7.4	SW846 8260B
Iodomethane	ND	10	10	ug/L	102		SW846 8260B
	ND	10	12	ug/L	116	13	SW846 8260B
Isopropyl ether	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	8.5	ug/L	85	4.9	SW846 8260B
Dichlorodifluoromethane	ND	10	7.5	ug/L	66		SW846 8260B
	ND	10	6.6	ug/L	58	12	SW846 8260B
1,1-Dichloroethane	1.2	10	11	ug/L	99		SW846 8260B
	1.2	10	10	ug/L	91	7.6	SW846 8260B
1,2-Dichloroethane	ND	10	10	ug/L	103		SW846 8260B
	ND	10	11	ug/L	110	6.9	SW846 8260B
cis-1,2-Dichloroethene	ND	10	10	ug/L	97		SW846 8260B
	ND	10	9.8	ug/L	94	3.4	SW846 8260B
trans-1,2-Dichloroethene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.0	ug/L	90	4.5	SW846 8260B
1,1-Dichloroethene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.2	ug/L	92	2.8	SW846 8260B
1,2-Dichloropropane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	11	ug/L	106	6.8	SW846 8260B
1,3-Dichloropropane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.7	ug/L	97	7.9	SW846 8260B
2,2-Dichloropropane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	104	7.9	SW846 8260B
cis-1,3-Dichloropropene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.9	ug/L	99	9.2	SW846 8260B
trans-1,3-Dichloropropene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.8	ug/L	98	6.1	SW846 8260B
1,1-Dichloropropene	ND	10	11	ug/L	109		SW846 8260B
	ND	10	11	ug/L	109	0.50	SW846 8260B
Ethylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	10	ug/L	102	10	SW846 8260B
Hexachlorobutadiene	ND	10	10	ug/L	103		SW846 8260B
	ND	10	11	ug/L	107	4.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Isopropylbenzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	11	ug/L	106	11	SW846 8260B
p-Isopropyltoluene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	11	ug/L	105	8.6	SW846 8260B
Methylene chloride	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	8.8	ug/L	88	10	SW846 8260B
Naphthalene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	10	ug/L	100	13	SW846 8260B
n-Propylbenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.5	ug/L	95	4.9	SW846 8260B
Styrene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	104	9.6	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	10	ug/L	101	12	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	3.7	SW846 8260B
Tetrachloroethene	ND	10	10	ug/L	97		SW846 8260B
	ND	10	11	ug/L	104	7.1	SW846 8260B
Toluene	ND	10	9.2	ug/L	90		SW846 8260B
	ND	10	10	ug/L	101	11	SW846 8260B
1,2,3-Trichlorobenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	11	ug/L	115	16	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	11	ug/L	114	17	SW846 8260B
1,1,1-Trichloroethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	11	ug/L	107	6.2	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	10	ug/L	100	9.6	SW846 8260B
Trichloroethene	1.1	10	12	ug/L	105		SW846 8260B
	1.1	10	12	ug/L	106	1.4	SW846 8260B
Trichlorofluoromethane	5.8	10	17	ug/L	117		SW846 8260B
	5.8	10	17	ug/L	108	5.5	SW846 8260B
1,2,3-Trichloropropane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.0	ug/L	90	0.30	SW846 8260B
1,2,4-Trimethylbenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	10	ug/L	101	9.9	SW846 8260B
1,3,5-Trimethylbenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.7	ug/L	97	8.6	SW846 8260B
Vinyl chloride	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.2	ug/L	92	6.8	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
m-Xylene & p-Xylene	ND	20	19	ug/L	93		SW846 8260B
	ND	20	21	ug/L	104	10	SW846 8260B
o-Xylene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	11	ug/L	106	14	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
	92	(63 - 129)
Toluene-d8	91	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)
	99	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8003.D
 Report Date: 10-Jan-2011 14:03

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8003.D
 Lab Smp Id: MC5JF-MS
 Inj Date : 10-JAN-2011 13:47
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info : MC5JF-MS,5ML/5ML
 Misc Info : P10110A,8260LLUX10,,1904,3,,MS
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 12 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Fluorobenzene	96	5.116	5.113	(1.000)	1446106	50.0000			
* 2 Chlorobenzene-d5	117	7.790	7.787	(1.000)	1145035	50.0000			
* 3 1,4-Dichlorobenzene-d4	152	10.038	10.036	(1.000)	680241	50.0000			
\$ 4 Dibromofluoromethane	113	4.536	4.533	(0.887)	274060	48.0361		9.607	
\$ 5 1,2-Dichloroethane-d4	65	4.820	4.817	(0.942)	314665	47.1190		9.424	
\$ 6 Toluene-d8	98	6.476	6.474	(0.831)	1134327	45.2840		9.057	
\$ 7 Bromofluorobenzene	95	8.902	8.900	(1.143)	429580	48.8483		9.770	
8 Dichlorodifluoromethane	85	1.495	1.492	(0.292)	190576	37.3927		7.478	
9 Chloromethane	50	1.613	1.611	(0.315)	215498	32.2137		6.443	
10 Vinyl Chloride	62	1.708	1.717	(0.334)	268859	43.2069		8.641	
11 Bromomethane	94	1.992	1.989	(0.389)	141724	46.8448		9.369	
12 Chloroethane	64	2.075	2.084	(0.406)	198654	52.1331		10.427	
13 Trichlorofluoromethane	101	2.299	2.297	(0.450)	486848	87.3476		17.470	
15 Acrolein	56	2.607	2.605	(0.510)	128544	135.767		27.153	
16 Acetone	43	2.737	2.735	(0.535)	173262	96.9639		19.393	
17 1,1-Dichloroethene	96	2.714	2.711	(0.530)	276932	44.7562		8.951	
18 Freon-113	151	2.737	2.735	(0.535)	271125	63.7549		12.751	
19 Iodomethane	142	2.844	2.841	(0.556)	467830	51.0318		10.206	
20 Carbon Disulfide	76	2.915	2.912	(0.570)	813234	47.4119		9.482	
21 Methylene Chloride	84	3.104	3.102	(0.607)	292066	39.5088		7.902	

22 Acetonitrile	41	2.962	2.960 (0.579)	91190	189.801	37.960
23 Acrylonitrile	53	3.282	3.279 (0.642)	290034	131.692	26.338

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8003.D
Report Date: 10-Jan-2011 14:03

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
			(ng)	(ug/L)				
=====	=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.341	3.338 (0.653)	754005	43.3342	8.667		
25 trans-1,2-Dichloroethene	96	3.341	3.338 (0.653)	305091	43.1678	8.634		
26 Hexane	86	3.577	3.575 (0.699)	85190	67.0482	13.410		
27 Vinyl acetate	43	3.719	3.705 (0.727)	900346	118.388	23.678		
28 1,1-Dichloroethane	63	3.672	3.681 (0.718)	624646	55.5425	11.108		
29 tert-Butyl Alcohol	59	3.175	3.173 (0.621)	384178	1195.99	239.20		
30 2-Butanone	43	4.145	4.143 (0.810)	232222	104.525	20.905		
M 31 1,2-Dichloroethene (total)	96			665186	93.7849	18.757		
32 cis-1,2-dichloroethene	96	4.157	4.155 (0.813)	360095	50.6170	10.123		
33 2,2-Dichloropropane	77	4.157	4.167 (0.813)	302164	48.0248	9.605		
34 Bromochloromethane	128	4.347	4.344 (0.850)	163995	47.9333	9.587		
35 Chloroform	83	4.406	4.403 (0.861)	537735	50.5022	10.100		
36 Tetrahydrofuran	42	4.394	4.391 (0.859)	74679	48.9882	9.798		
37 1,1,1-Trichloroethane	97	4.583	4.581 (0.896)	411464	50.4211	10.084		
38 1,1-Dichloropropene	75	4.713	4.723 (0.921)	443723	54.3083	10.862		
39 Carbon Tetrachloride	117	4.725	4.735 (0.924)	334940	53.5258	10.705		
40 1,2-Dichloroethane	62	4.891	4.888 (0.956)	391793	51.3721	10.274		
41 Benzene	78	4.891	4.888 (0.956)	1319483	49.1551	9.831		
42 Trichloroethene	130	5.423	5.433 (1.060)	394884	57.7966	11.559		
43 1,2-Dichloropropane	63	5.613	5.610 (1.097)	301512	49.2998	9.860		
44 1,4-Dioxane	88	Compound Not Detected.						
45 Dibromomethane	93	5.707	5.705 (1.116)	178645	52.2560	10.451		
46 Bromodichloromethane	83	5.837	5.835 (1.141)	340494	49.7111	9.942		
47 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
48 cis-1,3-Dichloropropene	75	6.228	6.225 (1.217)	369762	45.1434	9.029		
49 4-Methyl-2-pentanone	43	6.346	6.356 (1.241)	442393	102.905	20.581		
50 Toluene	91	6.536	6.533 (0.839)	1373504	46.2495	9.250		
51 trans-1,3-Dichloropropene	75	6.713	6.711 (0.862)	341492	46.2876	9.258		
52 Ethyl Methacrylate	69	Compound Not Detected.						
53 1,1,2-Trichloroethane	97	6.879	6.876 (0.883)	255527	45.6533	9.131		
54 1,3-Dichloropropane	76	7.033	7.030 (0.903)	441724	44.7761	8.955		
55 Tetrachloroethene	164	7.044	7.042 (0.904)	309387	51.0358	10.207		
56 2-Hexanone	43	7.092	7.101 (0.910)	272270	88.6670	17.733		
57 Dibromochloromethane	129	7.246	7.243 (0.930)	221196	43.3438	8.669		
58 1,2-Dibromoethane	107	7.364	7.361 (0.945)	243389	45.8391	9.168		
59 Chlorobenzene	112	7.814	7.823 (1.003)	867475	44.5778	8.916		
60 1,1,1,2-Tetrachloroethane	131	7.885	7.882 (1.012)	274723	44.7667	8.953		
61 Ethylbenzene	106	7.920	7.918 (1.017)	466223	46.1373	9.227		
62 m + p-Xylene	106	8.027	8.024 (1.030)	1190386	93.3659	18.673		
M 63 Xylenes (total)	106			1763678	139.764	27.953		
64 Xylene-o	106	8.405	8.403 (1.079)	573292	46.3982	9.280		
65 Styrene	104	8.417	8.415 (1.081)	904327	47.4613	9.492		
66 Bromoform	173	8.583	8.592 (1.102)	126248	38.4712	7.694		
67 Isopropylbenzene	105	8.760	8.758 (1.125)	1447701	47.3117	9.462		
68 1,1,2,2-Tetrachloroethane	83	9.021	9.018 (0.899)	324278	42.6895	8.538		
69 1,4-Dichloro-2-butene	53	9.080	9.077 (0.905)	82471	67.7828	13.556		
70 1,2,3-Trichloropropane	110	9.068	9.065 (0.903)	107392	44.9230	8.984		
71 Bromobenzene	156	9.056	9.053 (0.902)	375399	42.3229	8.464		
72 n-Propylbenzene	120	9.151	9.160 (0.912)	406984	45.4001	9.080		
73 2-Chlorotoluene	126	9.245	9.243 (0.921)	354826	42.7856	8.557		
74 1,3,5-Trimethylbenzene	105	9.328	9.326 (0.929)	1213951	44.5890	8.918		
75 4-Chlorotoluene	126	9.340	9.349 (0.930)	371042	43.2747	8.655		

76 tert-Butylbenzene	119	9.648	9.645 (0.961)	1054161	45.8097	9.162
77 1,2,4-Trimethylbenzene	105	9.695	9.692 (0.966)	1262425	45.6304	9.126

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8003.D
 Report Date: 10-Jan-2011 14:03

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
78 sec-Butylbenzene	105	9.861	9.870 (0.982)		1421854	46.1540	9.231
79 4-Isopropyltoluene	119	10.003	10.000 (0.996)		1267548	48.3421	9.668
80 1,3-Dichlorobenzene	146	9.967	9.976 (0.993)		716693	42.6215	8.524
81 1,4-Dichlorobenzene	146	10.062	10.059 (1.002)		754254	42.8048	8.561
82 n-Butylbenzene	91	10.417	10.414 (1.038)		1006569	48.8359	9.767
83 1,2-Dichlorobenzene	146	10.429	10.426 (1.039)		698687	43.8485	8.770
84 1,2-Dibromo-3-chloropropane	157	11.198	11.195 (1.116)		54985	47.4968	9.499
85 1,2,4-Trichlorobenzene	180	12.038	12.035 (1.199)		453207	47.7222	9.544
86 Hexachlorobutadiene	225	12.215	12.213 (1.217)		177616	51.2900	10.258
87 Naphthalene	128	12.275	12.284 (1.223)		1032801	43.8882	8.778
88 1,2,3-Trichlorobenzene	180	12.535	12.532 (1.249)		426900	49.0220	9.804
14 Dichlorofluoromethane	67	2.240	2.238 (0.438)		2222335	209.387	41.877
89 Ethyl Ether	59	2.512	2.510 (0.491)		219123	40.3389	8.068
91 3-Chloropropene	76	2.915	3.007 (0.570)		813234	236.138	47.228
92 Isopropyl Ether	87	3.731	3.728 (0.729)		271615	44.8859	8.977
93 2-Chloro-1,3-butadiene	53	3.566	3.752 (0.697)		15389	1.53835	0.3077
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.145	4.190 (0.810)		231683	48.8335	9.767
96 Methacrylonitrile	41	4.394	4.320 (0.859)		48148	13.7112	2.742
97 Isobutanol	41	4.761	4.758 (0.611)		437618	2590.21	518.04
99 n-Butanol	56	5.116	5.314 (0.657)		7538	57.2109	11.442
100 Methyl Methacrylate	41	5.613	5.693 (1.097)		383117	90.4390	18.088
101 2-Nitropropane	41	5.908	6.012 (1.155)		396	5.61409	1.123
103 Cyclohexanone	55	8.831	8.840 (0.880)		148442	593.190	118.64
98 Cyclohexane	56	4.654	4.652 (0.910)		542604	57.1973	11.439
143 Methyl Acetate	43	3.009	3.007 (0.588)		189277	42.2823	8.456
144 Methylcyclohexane	83	5.613	5.610 (1.097)		551911	61.1943	12.239
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
149 Vinyl Acetate-86	86	3.708	3.705 (0.725)		58004	64.0583	12.812
153 t-Butyl ethyl ether	59	Compound Not Detected.					
154 t-Amyl methyl ether	73	4.891	4.971 (0.956)		22130	1.21369	0.2427(a)
155 1,2,3-Trimethylbenzene	105	10.109	10.106 (1.007)		1279005	51.5382	10.308

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX8003.D
 Report Date: 10-Jan-2011 14:03

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX8003.D Calibration Time: 09:51
 Lab Smp Id: MC5JF-MS
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,,1904,3,,MS

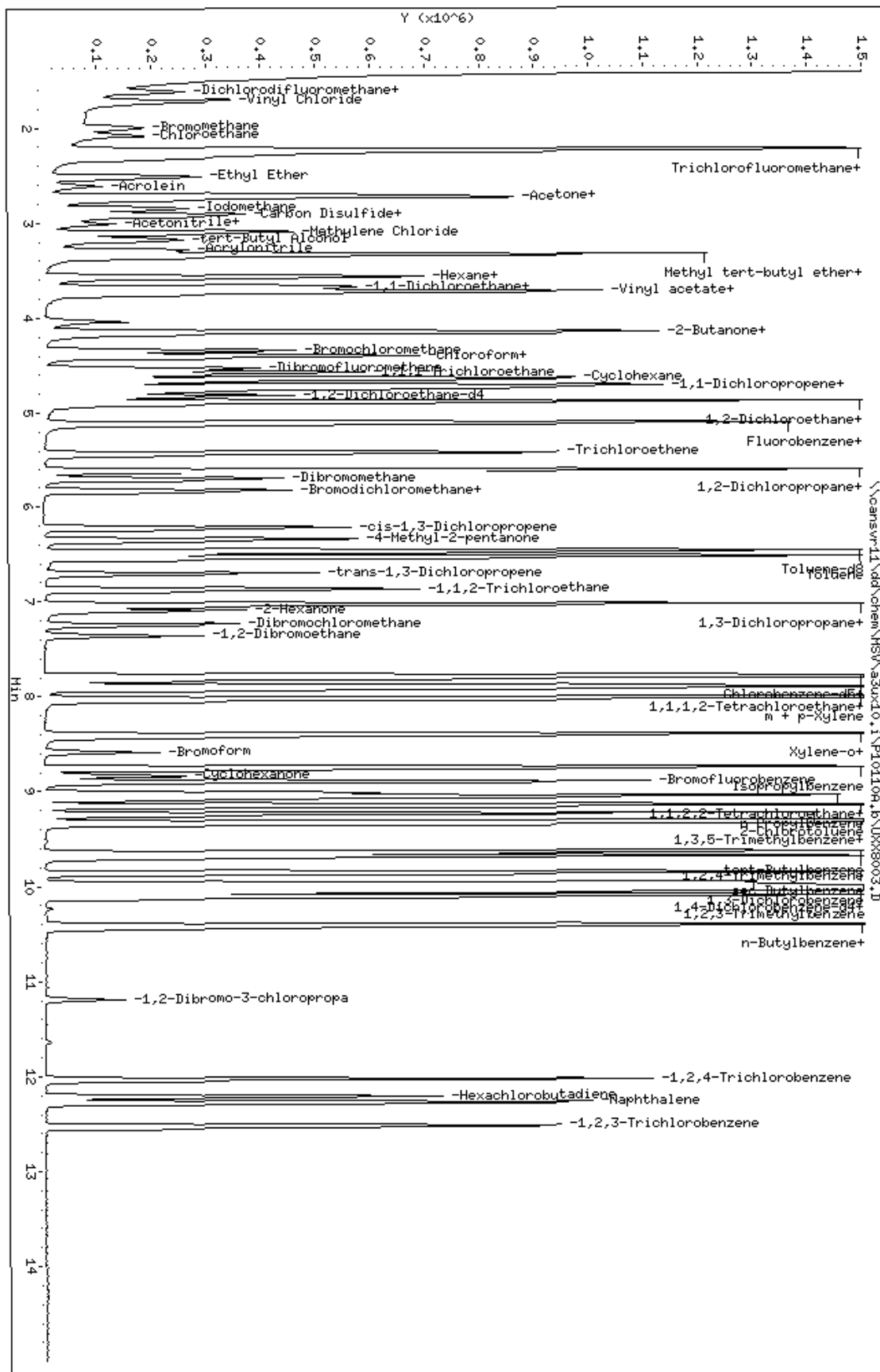
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1446106	5.55
2 Chlorobenzene-d5	1084996	542498	2169992	1145035	5.53
3 1,4-Dichlorobenze	659942	329971	1319884	680241	3.08

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.12	0.05
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	0.03
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.03

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\33x10.i\PI0110A.b\UX8003.D
 Date: 10-JAN-2011 13:47
 Client ID:
 Sample Info: H05JF-HS,5ML/5ML
 Purge Volume: 5.0
 Column Phase: DB624

Instrument: 33x10.i
 Operator: 1904
 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8004.D
 Report Date: 10-Jan-2011 14:24

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B
 Data file : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8004.D
 Lab Smp Id: MC5JF-MSD
 Inj Date : 10-JAN-2011 14:09
 Operator : 1904 Inst ID: 3ux10.i
 Smp Info : MC5JF-MSD,5ML/5ML
 Misc Info : P10110A,8260LLUX10,,1904,3,,MSD
 Comment :
 Method : \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\8260LLUX10.m
 Meth Date : 10-Jan-2011 10:32 3ux10.i Quant Type: ISTD
 Cal Date : 23-NOV-2010 22:09 Cal File: UXX6623.D
 Als bottle: 13 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.14
 Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ng)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Fluorobenzene	96	5.112	5.113	(1.000)	1372102	50.0000			
* 2 Chlorobenzene-d5	117	7.787	7.787	(1.000)	1035060	50.0000			
* 3 1,4-Dichlorobenzene-d4	152	10.035	10.036	(1.000)	648080	50.0000			
\$ 4 Dibromofluoromethane	113	4.533	4.533	(0.887)	256453	47.3744		9.475	
\$ 5 1,2-Dichloroethane-d4	65	4.817	4.817	(0.942)	291599	46.0201		9.204	
\$ 6 Toluene-d8	98	6.473	6.474	(0.831)	1065323	47.0480		9.410	
\$ 7 Bromofluorobenzene	95	8.899	8.900	(1.143)	392772	49.4082		9.882	
8 Dichlorodifluoromethane	85	1.492	1.492	(0.292)	160313	33.1514		6.630	
9 Chloromethane	50	1.610	1.611	(0.315)	224178	35.3186		7.064	
10 Vinyl Chloride	62	1.716	1.717	(0.336)	272953	46.2307		9.246	
11 Bromomethane	94	1.989	1.989	(0.389)	144929	50.4879		10.098	
12 Chloroethane	64	2.071	2.084	(0.405)	202411	55.9840		11.197	
13 Trichlorofluoromethane	101	2.296	2.297	(0.449)	437168	82.6646		16.533	
15 Acrolein	56	2.604	2.605	(0.509)	123172	137.109		27.422	
16 Acetone	43	2.734	2.735	(0.535)	178658	105.376		21.075	
17 1,1-Dichloroethene	96	2.710	2.711	(0.530)	270335	46.0464		9.209	
18 Freon-113	151	2.734	2.735	(0.535)	239828	59.4371		11.887	
19 Iodomethane	142	2.840	2.841	(0.556)	505117	58.0709		11.614	
20 Carbon Disulfide	76	2.911	2.912	(0.570)	820787	50.4331		10.087	
21 Methylene Chloride	84	3.101	3.102	(0.607)	307197	43.7970		8.759	

22 Acetonitrile	41	2.959	2.960 (0.579)	90072	198.635	39.727
23 Acrylonitrile	53	3.290	3.279 (0.644)	275224	131.707	26.341

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8004.D
 Report Date: 10-Jan-2011 14:24

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
24 Methyl tert-butyl ether	73	3.337	3.338	(0.653)	774532	46.9148	9.383
25 trans-1,2-Dichloroethene	96	3.337	3.338	(0.653)	302708	45.1407	9.028
26 Hexane	86	3.574	3.575	(0.699)	61591	51.0892	10.218
27 Vinyl acetate	43	3.728	3.705	(0.729)	840123	116.427	23.285
28 1,1-Dichloroethane	63	3.681	3.681	(0.720)	548984	51.4476	10.290
29 tert-Butyl Alcohol	59	3.172	3.173	(0.620)	386004	1266.49	253.30
30 2-Butanone	43	4.142	4.143	(0.810)	235831	111.874	22.375
M 31 1,2-Dichloroethene (total)	96				632974	94.0687	18.814
32 cis-1,2-dichloroethene	96	4.154	4.155	(0.813)	330266	48.9280	9.786
33 2,2-Dichloropropane	77	4.166	4.167	(0.815)	310278	51.9741	10.395
34 Bromochloromethane	128	4.343	4.344	(0.850)	170384	52.4867	10.497
35 Chloroform	83	4.402	4.403	(0.861)	550576	54.4971	10.899
36 Tetrahydrofuran	42	4.391	4.391	(0.859)	72479	50.1093	10.022
37 1,1,1-Trichloroethane	97	4.580	4.581	(0.896)	415601	53.6749	10.735
38 1,1-Dichloropropene	75	4.722	4.723	(0.924)	423171	54.5863	10.917
39 Carbon Tetrachloride	117	4.734	4.735	(0.926)	327880	55.2236	11.045
40 1,2-Dichloroethane	62	4.888	4.888	(0.956)	398291	55.0408	11.008
41 Benzene	78	4.888	4.888	(0.956)	1347664	52.9128	10.582
42 Trichloroethene	130	5.432	5.433	(1.062)	379822	58.5904	11.718(R)
43 1,2-Dichloropropane	63	5.609	5.610	(1.097)	306184	52.7639	10.553
44 1,4-Dioxane	88	Compound Not Detected.					
45 Dibromomethane	93	5.704	5.705	(1.116)	177380	54.6845	10.937
46 Bromodichloromethane	83	5.834	5.835	(1.141)	338961	52.1563	10.431
47 2-Chloroethyl vinyl ether	63	6.083	6.083	(1.190)	137393	44.4280	8.886
48 cis-1,3-Dichloropropene	75	6.225	6.225	(1.218)	384855	49.5202	9.904
49 4-Methyl-2-pentanone	43	6.355	6.356	(1.243)	436375	106.979	21.396
50 Toluene	91	6.532	6.533	(0.839)	1383721	51.5441	10.309
51 trans-1,3-Dichloropropene	75	6.710	6.711	(0.862)	328130	49.2021	9.840
52 Ethyl Methacrylate	69	Compound Not Detected.					
53 1,1,2-Trichloroethane	97	6.875	6.876	(0.883)	254160	50.2338	10.047
54 1,3-Dichloropropane	76	7.029	7.030	(0.903)	432047	48.4484	9.690
55 Tetrachloroethene	164	7.041	7.042	(0.904)	300201	54.7821	10.956
56 2-Hexanone	43	7.100	7.101	(0.912)	256641	92.3111	18.462
57 Dibromochloromethane	129	7.242	7.243	(0.930)	218954	47.4631	9.493
58 1,2-Dibromoethane	107	7.361	7.361	(0.945)	233584	48.6667	9.733
59 Chlorobenzene	112	7.822	7.823	(1.005)	858678	48.8141	9.763
60 1,1,1,2-Tetrachloroethane	131	7.893	7.882	(1.014)	279147	50.3207	10.064
61 Ethylbenzene	106	7.917	7.918	(1.017)	465768	50.9896	10.198
62 m + p-Xylene	106	8.023	8.024	(1.030)	1193393	103.547	20.709
M 63 Xylenes (total)	106				1786967	156.691	31.338
64 Xylene-o	106	8.402	8.403	(1.079)	593574	53.1439	10.629
65 Styrene	104	8.414	8.415	(1.081)	899615	52.2304	10.446
66 Bromoform	173	8.591	8.592	(1.103)	117352	39.4768	7.895
67 Isopropylbenzene	105	8.757	8.758	(1.125)	1465152	52.9694	10.594
68 1,1,2,2-Tetrachloroethane	83	9.017	9.018	(0.899)	320514	44.2879	8.858
69 1,4-Dichloro-2-butene	53	9.076	9.077	(0.904)	63425	56.0008	11.200
70 1,2,3-Trichloropropane	110	9.065	9.065	(0.903)	102613	45.0540	9.011
71 Bromobenzene	156	9.053	9.053	(0.902)	375248	44.4053	8.881
72 n-Propylbenzene	120	9.159	9.160	(0.913)	407246	47.6837	9.537
73 2-Chlorotoluene	126	9.242	9.243	(0.921)	358630	45.3903	9.078
74 1,3,5-Trimethylbenzene	105	9.325	9.326	(0.929)	1260690	48.6037	9.721
75 4-Chlorotoluene	126	9.349	9.349	(0.932)	372228	45.5674	9.113

76 tert-Butylbenzene	119	9.644	9.645 (0.961)	1062397	48.4587	9.692
77 1,2,4-Trimethylbenzene	105	9.692	9.692 (0.966)	1327938	50.3803	10.076

Data File: \\cansvr11\dd\chem\MSV\3ux10.i\P10110A.b\UXX8004.D
 Report Date: 10-Jan-2011 14:24

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
78 sec-Butylbenzene	105	9.869	9.870 (0.983)		1445121	49.2371	9.847
79 4-Isopropyltoluene	119	10.011	10.000 (0.998)		1316646	52.7065	10.541
80 1,3-Dichlorobenzene	146	9.976	9.976 (0.994)		749817	46.8042	9.361
81 1,4-Dichlorobenzene	146	10.058	10.059 (1.002)		773873	46.0976	9.220
82 n-Butylbenzene	91	10.413	10.414 (1.038)		1026058	52.2518	10.450
83 1,2-Dichlorobenzene	146	10.425	10.426 (1.039)		739757	48.7298	9.746
84 1,2-Dibromo-3-chloropropane	157	11.194	11.195 (1.116)		56294	51.0407	10.208
85 1,2,4-Trichlorobenzene	180	12.035	12.035 (1.199)		514214	56.8332	11.367
86 Hexachlorobutadiene	225	12.212	12.213 (1.217)		176731	53.5670	10.713
87 Naphthalene	128	12.283	12.284 (1.224)		1127705	49.9164	9.983
88 1,2,3-Trichlorobenzene	180	12.532	12.532 (1.249)		475484	57.3106	11.462
14 Dichlorofluoromethane	67	2.237	2.238 (0.438)		2024250	201.011	40.202
89 Ethyl Ether	59	2.509	2.510 (0.491)		225934	43.8360	8.767
91 3-Chloropropene	76	2.911	3.007 (0.570)		820787	251.186	50.237
92 Isopropyl Ether	87	3.728	3.728 (0.729)		245415	42.7436	8.549
93 2-Chloro-1,3-butadiene	53	3.574	3.752 (0.699)		11412	1.20232	0.2405
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.142	4.190 (0.810)		226818	50.3866	10.077
96 Methacrylonitrile	41	4.402	4.320 (0.861)		44431	13.3351	2.667
97 Isobutanol	41	4.757	4.758 (0.611)		389577	2550.86	510.17
99 n-Butanol	56	5.112	5.314 (0.657)		8326	69.9057	13.981
100 Methyl Methacrylate	41	5.763	5.693 (1.127)		4073	1.01333	0.2027
101 2-Nitropropane	41	6.083	6.012 (1.190)		6973	10.9182	2.184
103 Cyclohexanone	55	8.840	8.840 (0.881)		151359	634.862	126.97
98 Cyclohexane	56	4.651	4.652 (0.910)		493681	54.8470	10.969
143 Methyl Acetate	43	3.006	3.007 (0.588)		188963	44.4889	8.898
144 Methylcyclohexane	83	5.609	5.610 (1.097)		475115	55.5206	11.104
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
149 Vinyl Acetate-86	86	3.704	3.705 (0.725)		50503	58.7826	11.756
153 t-Butyl ethyl ether	59	Compound Not Detected.					
154 t-Amyl methyl ether	73	4.888	4.971 (0.956)		21380	1.23579	0.2472(a)
155 1,2,3-Trimethylbenzene	105	10.106	10.106 (1.007)		1362889	57.6437	11.529

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\UXX8004.D
 Report Date: 10-Jan-2011 14:24

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: a3ux10.i Calibration Date: 10-JAN-2011
 Lab File ID: UXX8004.D Calibration Time: 09:51
 Lab Smp Id: MC5JF-MSD
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: 1904
 Method File: \\cansvr11\dd\chem\MSV\a3ux10.i\P10110A.b\8260LLUX10.m
 Misc Info: P10110A,8260LLUX10,,1904,3,,MSD

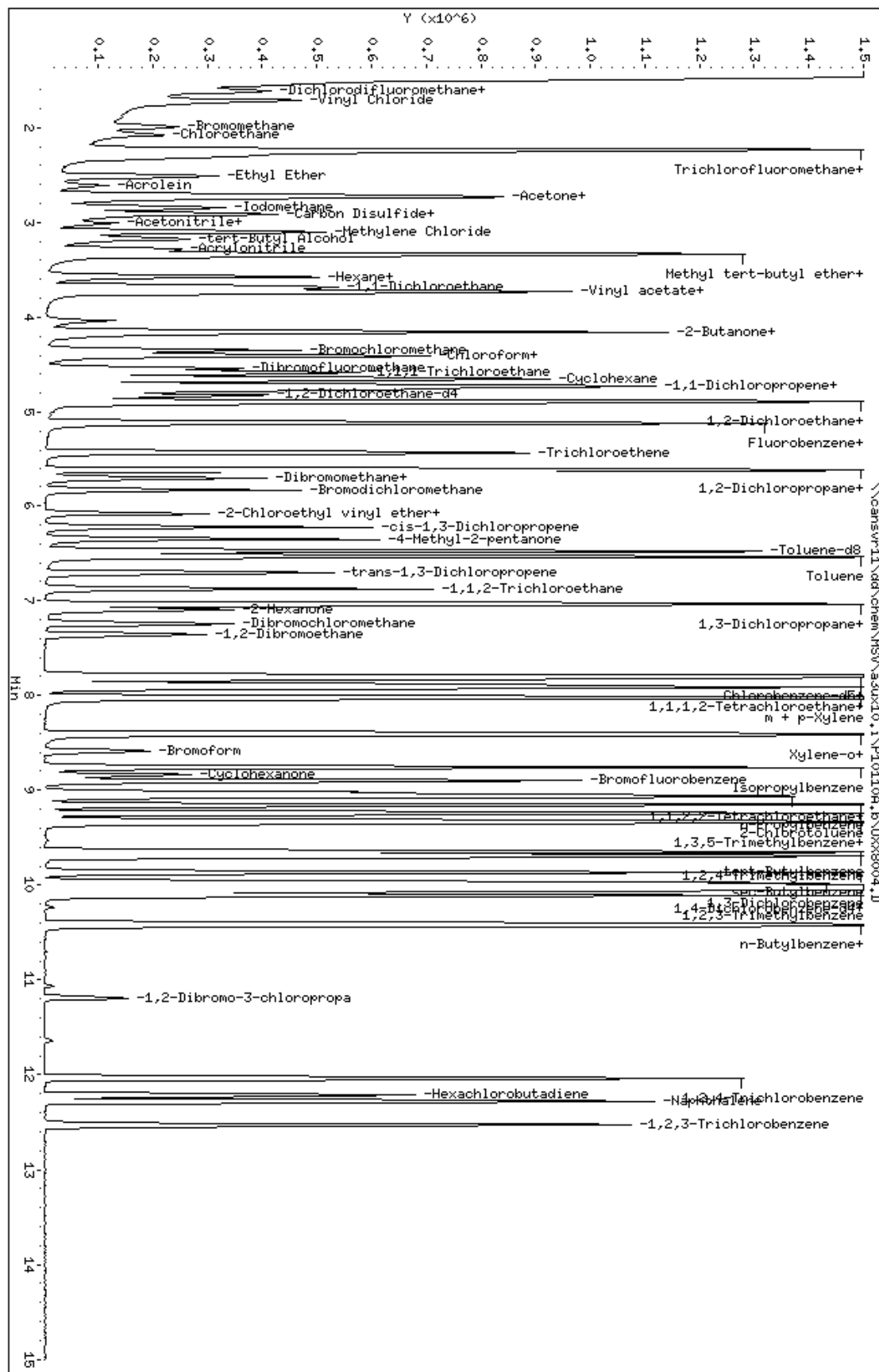
COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	1370072	685036	2740144	1372102	0.15
2 Chlorobenzene-d5	1084996	542498	2169992	1035060	-4.60
3 1,4-Dichlorobenze	659942	329971	1319884	648080	-1.80

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Fluorobenzene	5.11	4.61	5.61	5.11	-0.02
2 Chlorobenzene-d5	7.79	7.29	8.29	7.79	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\33ux10.i\PI0110A.b\UX8004.D
 Date : 10-JAN-2011 14:09
 Client ID:
 Sample Info: MCSJF-HSD,5ML/5ML
 Purge Volume: 5.0
 Column phase: DB624

Instrument: 33ux10.i
 Operator: 1904
 Column diameter: 0.18



MISCELLANEOUS DATA

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#: <u>V9357</u>	Type: DB624	Method: <u>8260</u> 624
SS#: <u>V9358</u>	Length: 20 M	Batch:
BFB#: <u>V9140</u>	I.D.: 0.18 mm	Target Batch: P01114A-IC.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
16:17	BFB3928.D		BFB				ok
16:46	UXX6193.D	200NG-IC <u>V9335, 42, 46, 55</u>	CALIB_6				ok
17:08	UXX6194.D	100NG-IC	CALIB_5				ok
17:30	UXX6195.D	50NG-IC	CALIB_4		P01114		ok
17:52	UXX6196.D	25NG-IC	CALIB_3				ok
18:13	UXX6197.D	10NG-IC	CALIB_2				ok
18:34	UXX6198.D	5NG-IC	CALIB_1				ok
18:56	UXX6199.D	ICV <u>V9337</u>	METHSPIKE				ok
19:17	UXX6200.D	200NG-A9IC <u>V9338, 39</u>	CALIB_6				ok
19:38	UXX6201.D	100NG-A9IC	CALIB_5				ok
19:59	UXX6202.D	50NG-A9IC	CALIB_4		P01114-A7		ok
20:21	UXX6203.D	25NG-A9IC	CALIB_3				ok
20:42	UXX6204.D	10NG-A9IC	CALIB_2				ok
21:03	UXX6205.D	5NG-A9IC	CALIB_1				ok

Analyst: 1904

Level 2 Review: TSDate: 11/17/10

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TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

12/28

Standard Codes:		Column	Method: 8260 624				
IS#:	V9459	Type: DB624	Batch: 036410x				
SS#:	V9473	Length: 20 M	Target Batch: P01229A-IC.b				
BFB#:	V9140	I.D.: 0.18 mm					
=====							
InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
=====							
09:10	BFB3989.D		BFB				ok
09:33	UXX7801.D	200NG-IC	CALIB_6				ok
09:55	UXX7802.D	100NG-IC	CALIB_5				ok
10:17	UXX7803.D	50NG-IC	CALIB_4		P01229		ok
10:38	UXX7804.D	25NG-IC	CALIB_3				ok
10:59	UXX7805.D	10NG-IC	CALIB_2				ok
11:20	UXX7806.D	5NG-IC	CALIB_1				ok
11:42	UXX7807.D	ICV	METHSPIKE				ok
12:20	UXX7808.D	50NG-A9CC	CCALIB_4		P01114		ok
12:41	UXX7809.D	LCS	METHSPIKE		MCW05		ok
13:02	UXX7810.D	VBLK, 5ML/5ML	BLANK		J		ok
13:24	UXX7811.D	MCP1P1AA, 0.004ML/5ML	SAMPLE	N		A0L220569	ok
13:46	UXX7812.D	MCP1D1AA, 0.005ML/5ML	SAMPLE	N		A0L220569	ok
14:07	UXX7813.D	MCP1E1AA, 0.01ML/5ML	SAMPLE	N		A0L220569	ok
14:29	UXX7814.D	MCP1G1AA, 0.015ML/5ML	SAMPLE	N		A0L220569	ok
14:51	UXX7815.D	MCP1H1AA, 0.08ML/5ML	SAMPLE	N	R-200ul	A0L220569	-
15:12	UXX7816.D	MCP1P1AC, 0.004ML/5ML	MS	N		A0L220569	ok
15:33	UXX7817.D	MCP1P1AD, 0.004ML/5ML	MSD	N		A0L220569	ok
15:55	UXX7818.D	MCP091AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
16:16	UXX7819.D	MCP1C1AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
16:38	UXX7820.D	MCP1L1AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
16:59	UXX7821.D	MCP1N1AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
17:20	UXX7822.D	MCP1Q1AA, 5ML/5ML	SAMPLE	N	R-1.5ml	A0L220569	-
17:42	UXX7823.D	MCP1T1AA, 5ML/5ML	SAMPLE	N		A0L220569	ok
18:03	UXX7824.D	MCP1H1AA, 0.2ML/5ML	SAMPLE	N		A0L220569	ok
18:25	UXX7825.D	MCP1X1AA, 0.55ML/5ML	SAMPLE	N		A0L220569	ok

Analyst: 1904

Level 2 Review: KDate: 1-3

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TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:		Column		
IS#:		Type: DB624	Method: 8260	624
SS#:		Length: 20 M	Batch:	
BFB#:		I.D.: 0.18 mm	Target Batch:	P01229A-IC.b
=====				
InjTm	Data File	Sample Info	MS/MSD	TIC
=====				
18:46	UXX7826.D	MCP101AA, 2ML/5ML	SAMPLE	N
19:07	UXX7827.D	MCP111AA, 0.125ML/5ML	SAMPLE	N
19:29	UXX7828.D	MCP121AA, 0.075ML/5ML	SAMPLE	N
19:50	UXX7829.D	MCP181AA, 0.4ML/5ML	SAMPLE	N
20:12	UXX7830.D	MCP2E1AA, 1ML/5ML	SAMPLE	N
20:34	UXX7831.D	MCP3D1AA, 0.75ML/5ML	SAMPLE	N
20:55	UXX7832.D	MA7H72AA, 0.01ML/5ML	SAMPLE	N
21:16	UXX7833.D	BLANK	SAMPLE	

Analyst: 1904

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Date: _____

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Standard Codes:	Column	Method:
IS#: <u>U9459</u>	Type: DB624	8260 624
SS#: <u>U9473</u>	Length: 20 M	Batch: <u>1010112</u>
BFB#: <u>U9470</u>	I.D.: 0.18 mm	Target Batch: P10110A.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
09:25	BFB3997.D		BFB				ok
09:51	UXX7992.D	50NG-CC <u>U9486, 98, 99</u>	CCALIB_4		<u>P01229</u>		ok
10:13	UXX7993.D	50NG-A9CC <u>U9492, 9500</u>	CCALIB_4		<u>P01114</u>		ok
10:34	UXX7994.D	LCS <u>U9497</u>	METHSPIKE	N	<u>MC6XD</u>		ok
10:56	UXX7995.D	VBLK, 5ML/5ML	BLANK	Y	<u>I</u>		ok
11:17	UXX7996.D	MC3QN1AA, 0.5ML/5ML	SAMPLE	N	<u>R-5ML</u>	A1A060436	-
11:38	UXX7997.D	MC3QT1AA, 5ML/5ML	SAMPLE	N		A1A060436	ok
12:00	UXX7998.D	MC5JF1AA, 5ML/5ML	SAMPLE	N		A1A070479	ok
12:21	UXX7999.D	MC5JN1AA, 5ML/5ML	SAMPLE	N		A1A070479	ok
12:43	UXX8000.D	MC3QN1AA, 5ML/5ML	SAMPLE	N		A1A060436	ok
13:04	UXX8001.D	MC48E1AA, 0.875ML/5ML	SAMPLE	N		A1A070446	ok
13:25	UXX8002.D	MC48E2AA, 5ML/5ML	SAMPLE	N		A1A070446	ok
13:47	UXX8003.D	MC5JF-MS, 5ML/5ML <u>-IAC</u>	MS	N		SDGa00932	ok
14:09	UXX8004.D	MC5JF-MSD, 5ML/5ML <u>-IAD</u>	MSD	N		SDGa00932	ok
14:30	UXX8005.D	MC48N1AA, 5ML/5ML	SAMPLE	N		A1A070446	ok
14:52	UXX8006.D	MC1EQ1AA, 0.002ML/5ML	SAMPLE	N	<u>R-3.5ml</u>	A1A040442	-
15:13	UXX8007.D	MC3WG1AA, 1ML/5ML	SAMPLE	N		A1A060460	ok
15:35	UXX8008.D	MC3WC1AA, 5ML/5ML	SAMPLE	N		A1A060460	ok
15:56	UXX8009.D	MC3R51AA, 1ML/5ML	SAMPLE	N		A1A060444	ok
16:18	UXX8010.D	MC1EQ1AA, 0.0035ML/5ML	SAMPLE	N		A1A040442	ok
16:39	UXX8011.D	MC3RW1AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
17:01	UXX8012.D	MC3R71AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
17:22	UXX8013.D	MC3R81AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
17:44	UXX8014.D	MC3TC1AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
18:05	UXX8015.D	MC3TD1AA, 5ML/5ML	SAMPLE	N		A1A060444	ok
18:27	UXX8016.D	MC3TG1AA, 5ML/5ML	SAMPLE	N		A1A060444	ok

Analyst: 1904

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TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#: _____	Type: DB624	Method: 8260 624
SS#: _____	Length: 20 M	Batch: _____
BFB#: _____	I.D.: 0.18 mm	Target Batch: P10110A.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
18:48	UXX8017.D	MC0FF1AA, 5ML/5ML	SAMPLE	N		A1A030412	ok
19:10	UXX8018.D	MC0FH1AA, 5ML/5ML	SAMPLE	N		A1A030412	ok
19:31	UXX8019.D	MC0FJ1AA, 5ML/5ML	SAMPLE	N		A1A030412	ok

Analyst: 1904

Level 2 Review: _____ Date: _____

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TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:		Column					
IS#:		Type: DB624	Method: 8260	624			
SS#:		Length: 20 M	Batch:				
BFB#:		I.D.: 0.18 mm	Target Batch: P10110A.b				
=====							
InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
=====							
09:25	BFB3997.D		BFB				
09:51	UXX7992.D	50NG-CC	CCALIB_4				
10:13	UXX7993.D	50NG-A9CC	CCALIB_4				
10:34	UXX7994.D	LCS	METHSPIKE	N			
10:56	UXX7995.D	VBLK, 5ML/5ML	BLANK	Y			
11:17	UXX7996.D	MC3QN1AA, 0.5ML/5ML	SAMPLE	N	R - 5ml	A1A060436	
11:38	UXX7997.D	MC3QT1AA, 5ML/5ML	SAMPLE	N		A1A060436	dk
12:00	UXX7998.D	MC5JF1AA, 5ML/5ML	SAMPLE	N		A1A070479	
12:21	UXX7999.D	MC5JN1AA, 5ML/5ML	SAMPLE	N		A1A070479	
12:43	UXX8000.D	MC3QN1AA, 5ML/5ML	SAMPLE	N		A1A060436	dk
13:04	UXX8001.D	MC48E1AA, 0.875ML/5ML	SAMPLE	N		A1A070446	
13:25	UXX8002.D	MC48E2AA, 5ML/5ML	SAMPLE	N		A1A070446	
13:47	UXX8003.D	MC5JF-MS, 5ML/5ML	MS	N		SDGa00932	
14:09	UXX8004.D	MC5JF-MSD, 5ML/5ML	MSD	N		SDGa00932	
14:30	UXX8005.D	MC48N1AA, 5ML/5ML	SAMPLE	N		A1A070446	
14:52	UXX8006.D	MC1EQ1AA, 0.002ML/5ML	SAMPLE	N	R -	A1A040442	
15:13	UXX8007.D	MC3WG1AA, 1ML/5ML	SAMPLE	N		A1A060460	

Analyst: 1904

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Lot: A1A070479

A1A070479

<u>Sample</u>	<u>Work Order</u>	<u>SAC</u>	<u>Client Sample ID</u>	<u>pH</u>	<u>Free Chlorine</u>
1	MC5JF-1AA	XX I 25 QK 01	MW-108BH@210' (20110106)	7,1,7	ND
2	MC5JN-1AA	XX I 25 QK 01	TB-20110106	<2	ND

Lot/SDG
Number: **A1A070479**

Sample Control Chain of Custody – TAL North Canton
GC/MS Volatiles

<u>Lot Number</u>	<u>Sample</u>	<u>Work Order</u>	<u>Analysis Type</u>	<u>Analysis Date</u>	<u>Analyst</u>
A1A070479	1	MC5JF1AA	Volatile Organics, GC/MS (8260B)	01/10/11	Richard Quayle
A1A070479	2	MC5JN1AA	Volatile Organics, GC/MS (8260B)	01/10/11	Richard Quayle

END OF REPORT

ANALYTICAL REPORT

PROJECT NO. KC001590.0003.00002

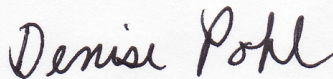
TRW OGVOU2

Lot #: A1A070479

Paul Jack, ESPM

TRW Automotive Inc
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Livonia, MI 48150

TESTAMERICA LABORATORIES, INC.



Denise Pohl
Project Manager
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Approved for release.
Denise Pohl
Project Manager
1/18/2011 1:20 PM

January 18, 2011

TestAmerica Laboratories, Inc.

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Executive Summary	7
Analytical Method Summary	9
Sample Summary	11
Shipping and Receiving Documents	13
GC/MS Volatile Data	17
Total # of Pages in this Document	40

CASE NARRATIVE

CASE NARRATIVE

A1A070479

The following report contains the analytical results for one water sample and one quality control sample submitted to TestAmerica North Canton by TRW Automotive Inc. from the TRW OGVOU2 Site, project number KC001590.0003.00002. The samples were received January 07, 2011, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Alex Walter, Paul Jack, John Shonfelt, and Kirsten Wright on January 11, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.0°C.

GC/MS VOLATILES

The matrix spike/matrix spike duplicate(s) for MW-108BH@210(20110106) had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA_CWA 032609.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A1A070479

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-108BH@210(20110106) 01/06/11 09:30 001				
1,1-Dichloroethane	1.2	1.0	ug/L	SW846 8260B
Dichlorofluoromethane	39	2.0	ug/L	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	5.8	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A1A070479

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A1A070479

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MC5JF	001	MW-108BH@210 (20110106)	01/06/11	09:30
MC5JN	002	TB-20110106	01/06/11	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS



8725 Rosehill - Ste 350, Lenexa, KS 66278

Laboratory Task Order No./P.O. No.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name KC001590.0003.00002/TRW 06V 0U2

Project Location City of Sullivan, MO Landfill

Laboratory TA - NORTH CANTON; ATTN: Denise Poh

Project Manager John Shonfelt

Sampler(s)/Affiliation Larry Benolkin / AHEADS

ANALYSIS / METHOD / SIZE

VOCs EPA 8260B

LOC# 245

[illegible]

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/
Containers

5

Relinquished by: <u>Dany Benth</u>	Organization: <u>ARCADIS</u>	Date: <u>1 / 6 / 2011</u>	Time: <u>1530</u>	Seal Intact?
Received by: <u>Chris Jones</u>	Organization: <u>TBL</u>	Date: <u>1 / 7 / 11</u>	Time: <u>920</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1 / 1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1 / 1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: 48-hr (2Bday) TAT

Delivery Method: ☐ In Person

☒ Common Carrier FedEx 8715 8796 1213 ☐ Lab Courier
SPECIES

☐ Other

SPECIFY

AG 05-12/01

North Canton

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: ALA020429

Client Aracelis Project TRW 06V 002 By: Ch. L. Jones
 Cooler Received on 1-7-11 Opened on 1-7-11 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐
 TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
 If YES, Quantity 1 Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
 Were custody seals on the bottle(s)? Yes ☐ No ☒
 If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☐
 3. Did custody papers accompany the sample(s)? Yes ☐ No ☐ Relinquished by client? Yes ☐ No ☒
 4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
 5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
 6. Cooler temperature upon receipt 1.0 °C See back of form for multiple coolers/temps ☐
 METHOD: IR ☒ Other ☐
 COOLANT: Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
 7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
 8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
 9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
 10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
 11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
 12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
 13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐
- Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
 Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative North Canton Facility

[illegible]

Discrepancies Cont'd:

[illegible]

GCMS VOLATILE DATA

TRW Automotive

Client Sample ID: MW-108BH@210'(20110106)

GC/MS Volatiles

Lot-Sample #...: A1A070479-001 Work Order #...: MC5JF1AA Matrix.....: WG
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	1.2	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	39	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: MW-108BH@210'(20110106)

GC/MS Volatiles

Lot-Sample #...: A1A070479-001 Work Order #...: MC5JF1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.1	1.0	ug/L
Trichlorofluoromethane	5.8	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	97		(75 - 121)	
1,2-Dichloroethane-d4	96		(63 - 129)	
Toluene-d8	87		(74 - 115)	
4-Bromofluorobenzene	91		(66 - 117)	

TRW Automotive

Client Sample ID: TB-20110106

GC/MS Volatiles

Lot-Sample #...: A1A070479-002 Work Order #...: MC5JN1AA Matrix.....: WQ
 Date Sampled...: 01/06/11 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

(Continued on next page)

TRW Automotive

Client Sample ID: TB-20110106

GC/MS Volatiles

Lot-Sample #...: A1A070479-002 Work Order #...: MC5JN1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	100	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
MB Lot-Sample #: A1A100000-112

Work Order #...: MC6XD1AA

Matrix.....: WATER

Analysis Date...: 01/10/11

Prep Date.....: 01/10/11

Final Wgt/Vol...: 5 mL

Dilution Factor: 1

Prep Batch #...: 1010112

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	1.0	ug/L	SW846	8260B
Bromobenzene	ND	1.0	ug/L	SW846	8260B
Bromochloromethane	ND	1.0	ug/L	SW846	8260B
Bromodichloromethane	ND	1.0	ug/L	SW846	8260B
Bromoform	ND	1.0	ug/L	SW846	8260B
Bromomethane	ND	1.0	ug/L	SW846	8260B
n-Butylbenzene	ND	1.0	ug/L	SW846	8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846	8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846	8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846	8260B
Chlorobenzene	ND	1.0	ug/L	SW846	8260B
Dibromochloromethane	ND	1.0	ug/L	SW846	8260B
Chloroethane	ND	1.0	ug/L	SW846	8260B
Chloroform	ND	1.0	ug/L	SW846	8260B
Chloromethane	ND	1.0	ug/L	SW846	8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846	8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846	8260B
Dibromomethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846	8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846	8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846	8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846	8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846	8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846	8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846	8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846	8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846	8260B
Ethylbenzene	ND	1.0	ug/L	SW846	8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846	8260B
Isopropylbenzene	ND	1.0	ug/L	SW846	8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846	8260B
Methylene chloride	ND	1.0	ug/L	SW846	8260B
Naphthalene	ND	1.0	ug/L	SW846	8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1A070479

Work Order #...: MC6XD1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
n-Propylbenzene	ND	1.0	ug/L	SW846	8260B
Styrene	ND	1.0	ug/L	SW846	8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846	8260B
Tetrachloroethene	ND	1.0	ug/L	SW846	8260B
Toluene	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846	8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846	8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846	8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846	8260B
Trichloroethene	ND	1.0	ug/L	SW846	8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846	8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846	8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846	8260B
Vinyl chloride	ND	1.0	ug/L	SW846	8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846	8260B
o-Xylene	ND	1.0	ug/L	SW846	8260B
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
Dibromofluoromethane	96		(75 - 121)		
1,2-Dichloroethane-d4	96		(63 - 129)		
Toluene-d8	92		(74 - 115)		
4-Bromofluorobenzene	88		(66 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	99	(83 - 112)	SW846 8260B
Acetone	103	(43 - 136)	SW846 8260B
Bromobenzene	84	(76 - 115)	SW846 8260B
Carbon disulfide	108	(62 - 142)	SW846 8260B
1,2-Dichloroethene (total)	97	(82 - 114)	SW846 8260B
Bromochloromethane	103	(77 - 120)	SW846 8260B
2-Butanone	108	(60 - 126)	SW846 8260B
Bromodichloromethane	109	(72 - 121)	SW846 8260B
Bromoform	88	(40 - 131)	SW846 8260B
Bromomethane	104	(11 - 185)	SW846 8260B
n-Butylbenzene	100	(66 - 125)	SW846 8260B
4-Methyl-2-pentanone	107	(63 - 128)	SW846 8260B
2-Hexanone	97	(55 - 133)	SW846 8260B
sec-Butylbenzene	95	(70 - 117)	SW846 8260B
tert-Butylbenzene	103	(71 - 115)	SW846 8260B
Xylenes (total)	97	(83 - 112)	SW846 8260B
Carbon tetrachloride	131 a	(66 - 128)	SW846 8260B
Chlorobenzene	92	(85 - 110)	SW846 8260B
Dibromochloromethane	99	(64 - 119)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	155 a	(74 - 151)	SW846 8260B
Methyl acetate	99	(58 - 131)	SW846 8260B
Chloroethane	112	(25 - 153)	SW846 8260B
Methyl tert-butyl ether (MTBE)	99	(52 - 144)	SW846 8260B
Cyclohexane	116	(54 - 121)	SW846 8260B
Methylcyclohexane	126	(56 - 127)	SW846 8260B
Chloroform	107	(79 - 117)	SW846 8260B
Chloromethane	80	(44 - 126)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(42 - 136)	SW846 8260B
2-Chlorotoluene	86	(76 - 116)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl tert-butyl ether	99	(52 - 144)	SW846 8260B
n-Hexane	133	(66 - 137)	SW846 8260B
4-Chlorotoluene	88	(77 - 115)	SW846 8260B
2-Chloroethyl vinyl ether	84	(52 - 131)	SW846 8260B
Acetonitrile	166	(15 - 184)	SW846 8260B
1,2-Dibromoethane	98	(79 - 113)	SW846 8260B
Acrolein	103	(51 - 170)	SW846 8260B
Vinyl acetate	94	(46 - 161)	SW846 8260B
Acrylonitrile	98	(66 - 132)	SW846 8260B
Dibromomethane	113	(81 - 120)	SW846 8260B
1,2-Dichlorobenzene	90	(81 - 110)	SW846 8260B
1,3-Dichlorobenzene	87	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	87	(82 - 110)	SW846 8260B
Iodomethane	119	(72 - 141)	SW846 8260B
Isopropyl ether	91	(77 - 118)	SW846 8260B
Dichlorodifluoromethane	82	(19 - 129)	SW846 8260B
1,1-Dichloroethane	99	(82 - 115)	SW846 8260B
1,2-Dichloroethane	119	(71 - 127)	SW846 8260B
cis-1,2-Dichloroethene	96	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	98	(83 - 117)	SW846 8260B
1,1-Dichloroethene	103	(78 - 131)	SW846 8260B
1,2-Dichloropropane	99	(81 - 115)	SW846 8260B
1,3-Dichloropropane	95	(79 - 116)	SW846 8260B
2,2-Dichloropropane	103	(50 - 129)	SW846 8260B
cis-1,3-Dichloropropene	101	(61 - 115)	SW846 8260B
trans-1,3-Dichloropropene	95	(58 - 117)	SW846 8260B
1,1-Dichloropropene	108	(83 - 114)	SW846 8260B
Ethylbenzene	96	(83 - 112)	SW846 8260B
Hexachlorobutadiene	105	(36 - 134)	SW846 8260B
Isopropylbenzene	100	(75 - 114)	SW846 8260B
p-Isopropyltoluene	99	(74 - 120)	SW846 8260B
Methylene chloride	97	(66 - 131)	SW846 8260B
Naphthalene	88	(32 - 141)	SW846 8260B
n-Propylbenzene	92	(74 - 121)	SW846 8260B
Styrene	101	(79 - 114)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(72 - 116)	SW846 8260B
1,1,2,2-Tetrachloroethane	84	(68 - 118)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tetrachloroethene	103	(79 - 114)	SW846 8260B
Toluene	85	(84 - 111)	SW846 8260B
1,2,3-Trichlorobenzene	102	(54 - 126)	SW846 8260B
1,2,4-Trichloro- benzene	101	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	113	(74 - 118)	SW846 8260B
1,1,2-Trichloroethane	94	(80 - 112)	SW846 8260B
Trichloroethene	105	(76 - 117)	SW846 8260B
Trichlorofluoromethane	138	(49 - 157)	SW846 8260B
1,2,3-Trichloropropane	87	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	93	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	90	(72 - 118)	SW846 8260B
Vinyl chloride	109	(53 - 127)	SW846 8260B
m-Xylene & p-Xylene	97	(83 - 113)	SW846 8260B
o-Xylene	98	(83 - 113)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC6XD1AC Matrix.....: WATER
 LCS Lot-Sample#: A1A100000-112
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10	9.9	ug/L	99	SW846 8260B
Acetone	20	21	ug/L	103	SW846 8260B
Bromobenzene	10	8.4	ug/L	84	SW846 8260B
Carbon disulfide	10	11	ug/L	108	SW846 8260B
1,2-Dichloroethene (total)	20	19	ug/L	97	SW846 8260B
Bromochloromethane	10	10	ug/L	103	SW846 8260B
2-Butanone	20	22	ug/L	108	SW846 8260B
Bromodichloromethane	10	11	ug/L	109	SW846 8260B
Bromoform	10	8.8	ug/L	88	SW846 8260B
Bromomethane	10	10	ug/L	104	SW846 8260B
n-Butylbenzene	10	10	ug/L	100	SW846 8260B
4-Methyl-2-pentanone	20	21	ug/L	107	SW846 8260B
2-Hexanone	20	19	ug/L	97	SW846 8260B
sec-Butylbenzene	10	9.5	ug/L	95	SW846 8260B
tert-Butylbenzene	10	10	ug/L	103	SW846 8260B
Xylenes (total)	30	29	ug/L	97	SW846 8260B
Carbon tetrachloride	10	13 a	ug/L	131	SW846 8260B
Chlorobenzene	10	9.2	ug/L	92	SW846 8260B
Dibromochloromethane	10	9.9	ug/L	99	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	16 a	ug/L	155	SW846 8260B
Methyl acetate	10	9.9	ug/L	99	SW846 8260B
Chloroethane	10	11	ug/L	112	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.9	ug/L	99	SW846 8260B
Cyclohexane	10	12	ug/L	116	SW846 8260B
Methylcyclohexane	10	13	ug/L	126	SW846 8260B
Chloroform	10	11	ug/L	107	SW846 8260B
Chloromethane	10	8.0	ug/L	80	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.5	ug/L	95	SW846 8260B
2-Chlorotoluene	10	8.6	ug/L	86	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methyl tert-butyl ether	10	9.9	ug/L	99	SW846 8260B
n-Hexane	10	13	ug/L	133	SW846 8260B
4-Chlorotoluene	10	8.8	ug/L	88	SW846 8260B
2-Chloroethyl vinyl ether	10	8.4	ug/L	84	SW846 8260B
Acetonitrile	30	50	ug/L	166	SW846 8260B
1,2-Dibromoethane	10	9.8	ug/L	98	SW846 8260B
Acrolein	30	31	ug/L	103	SW846 8260B
Vinyl acetate	10	9.4	ug/L	94	SW846 8260B
Acrylonitrile	30	29	ug/L	98	SW846 8260B
Dibromomethane	10	11	ug/L	113	SW846 8260B
1,2-Dichlorobenzene	10	9.0	ug/L	90	SW846 8260B
1,3-Dichlorobenzene	10	8.7	ug/L	87	SW846 8260B
1,4-Dichlorobenzene	10	8.7	ug/L	87	SW846 8260B
Iodomethane	10	12	ug/L	119	SW846 8260B
Isopropyl ether	10	9.1	ug/L	91	SW846 8260B
Dichlorodifluoromethane	10	8.2	ug/L	82	SW846 8260B
1,1-Dichloroethane	10	9.9	ug/L	99	SW846 8260B
1,2-Dichloroethane	10	12	ug/L	119	SW846 8260B
cis-1,2-Dichloroethene	10	9.6	ug/L	96	SW846 8260B
trans-1,2-Dichloroethene	10	9.8	ug/L	98	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	103	SW846 8260B
1,2-Dichloropropane	10	9.9	ug/L	99	SW846 8260B
1,3-Dichloropropane	10	9.5	ug/L	95	SW846 8260B
2,2-Dichloropropane	10	10	ug/L	103	SW846 8260B
cis-1,3-Dichloropropene	10	10	ug/L	101	SW846 8260B
trans-1,3-Dichloropropene	10	9.5	ug/L	95	SW846 8260B
1,1-Dichloropropene	10	11	ug/L	108	SW846 8260B
Ethylbenzene	10	9.6	ug/L	96	SW846 8260B
Hexachlorobutadiene	10	11	ug/L	105	SW846 8260B
Isopropylbenzene	10	10	ug/L	100	SW846 8260B
p-Isopropyltoluene	10	9.9	ug/L	99	SW846 8260B
Methylene chloride	10	9.7	ug/L	97	SW846 8260B
Naphthalene	10	8.8	ug/L	88	SW846 8260B
n-Propylbenzene	10	9.2	ug/L	92	SW846 8260B
Styrene	10	10	ug/L	101	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.6	ug/L	96	SW846 8260B
1,1,2,2-Tetrachloroethane	10	8.4	ug/L	84	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479
LCS Lot-Sample#: A1A100000-112

Work Order #...: MC6XD1AC

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tetrachloroethene	10	10	ug/L	103	SW846 8260B
Toluene	10	8.5	ug/L	85	SW846 8260B
1,2,3-Trichlorobenzene	10	10	ug/L	102	SW846 8260B
1,2,4-Trichloro- benzene	10	10	ug/L	101	SW846 8260B
1,1,1-Trichloroethane	10	11	ug/L	113	SW846 8260B
1,1,2-Trichloroethane	10	9.4	ug/L	94	SW846 8260B
Trichloroethene	10	11	ug/L	105	SW846 8260B
Trichlorofluoromethane	10	14	ug/L	138	SW846 8260B
1,2,3-Trichloropropane	10	8.7	ug/L	87	SW846 8260B
1,2,4-Trimethylbenzene	10	9.3	ug/L	93	SW846 8260B
1,3,5-Trimethylbenzene	10	9.0	ug/L	90	SW846 8260B
Vinyl chloride	10	11	ug/L	109	SW846 8260B
m-Xylene & p-Xylene	20	19	ug/L	97	SW846 8260B
o-Xylene	10	9.8	ug/L	98	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	103	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	98	(72 - 121)			SW846 8260B
	106	(72 - 121)	7.4	(0-30)	SW846 8260B
Bromobenzene	85	(71 - 116)			SW846 8260B
	89	(71 - 116)	4.8	(0-30)	SW846 8260B
Acetone	76	(33 - 145)			SW846 8260B
	84	(33 - 145)	8.3	(0-30)	SW846 8260B
Carbon disulfide	95	(57 - 147)			SW846 8260B
	101	(57 - 147)	6.2	(0-30)	SW846 8260B
Bromochloromethane	96	(73 - 121)			SW846 8260B
	105	(73 - 121)	9.1	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	92	(75 - 119)			SW846 8260B
	92	(75 - 119)	0.30	(0-30)	SW846 8260B
Bromodichloromethane	99	(67 - 120)			SW846 8260B
	104	(67 - 120)	4.8	(0-30)	SW846 8260B
2-Butanone	105	(54 - 129)			SW846 8260B
	112	(54 - 129)	6.8	(0-30)	SW846 8260B
Bromoform	77	(32 - 128)			SW846 8260B
	79	(32 - 128)	2.6	(0-30)	SW846 8260B
Bromomethane	94	(10 - 186)			SW846 8260B
	101	(10 - 186)	7.5	(0-30)	SW846 8260B
n-Butylbenzene	98	(56 - 127)			SW846 8260B
	104	(56 - 127)	6.8	(0-30)	SW846 8260B
4-Methyl-2-pentanone	103	(56 - 131)			SW846 8260B
	107	(56 - 131)	3.9	(0-30)	SW846 8260B
sec-Butylbenzene	92	(60 - 119)			SW846 8260B
	98	(60 - 119)	6.4	(0-30)	SW846 8260B
2-Hexanone	89	(47 - 139)			SW846 8260B
	92	(47 - 139)	4.0	(0-30)	SW846 8260B
tert-Butylbenzene	92	(61 - 119)			SW846 8260B
	97	(61 - 119)	5.6	(0-30)	SW846 8260B
Carbon tetrachloride	107	(59 - 129)			SW846 8260B
	110	(59 - 129)	3.1	(0-30)	SW846 8260B
Xylenes (total)	93	(76 - 116)			SW846 8260B
	104	(76 - 116)	11	(0-30)	SW846 8260B
Chlorobenzene	89	(80 - 110)			SW846 8260B
	98	(80 - 110)	9.1	(0-30)	SW846 8260B
Dibromochloromethane	87	(56 - 118)			SW846 8260B
	95	(56 - 118)	9.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	125	(70 - 152)			SW846 8260B
	116	(70 - 152)	7.0	(0-30)	SW846 8260B
Methyl acetate	85	(47 - 130)			SW846 8260B
	89	(47 - 130)	5.1	(0-30)	SW846 8260B
Chloroethane	104	(21 - 165)			SW846 8260B
	112	(21 - 165)	7.1	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	87	(46 - 144)			SW846 8260B
	94	(46 - 144)	7.9	(0-30)	SW846 8260B
Cyclohexane	114	(49 - 123)			SW846 8260B
	110	(49 - 123)	4.2	(0-30)	SW846 8260B
Methylcyclohexane	122	(49 - 127)			SW846 8260B
	111	(49 - 127)	9.7	(0-30)	SW846 8260B
Chloroform	98	(76 - 118)			SW846 8260B
	106	(76 - 118)	7.6	(0-30)	SW846 8260B
Chloromethane	64	(33 - 132)			SW846 8260B
	71	(33 - 132)	9.2	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(32 - 139)			SW846 8260B
	102	(32 - 139)	7.2	(0-30)	SW846 8260B
2-Chlorotoluene	86	(69 - 117)			SW846 8260B
	91	(69 - 117)	5.9	(0-30)	SW846 8260B
Methyl tert-butyl ether	87	(46 - 144)			SW846 8260B
	94	(46 - 144)	7.9	(0-30)	SW846 8260B
n-Hexane	134	(54 - 138)			SW846 8260B
	102	(54 - 138)	27	(0-30)	SW846 8260B
4-Chlorotoluene	87	(71 - 116)			SW846 8260B
	91	(71 - 116)	5.2	(0-30)	SW846 8260B
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	89 p	(10 - 150)	200	(0-30)	SW846 8260B
Acetonitrile	127	(12 - 182)			SW846 8260B
	132	(12 - 182)	4.5	(0-30)	SW846 8260B
1,2-Dibromoethane	92	(74 - 113)			SW846 8260B
	97	(74 - 113)	6.0	(0-30)	SW846 8260B
Acrolein	91	(47 - 168)			SW846 8260B
	91	(47 - 168)	0.98	(0-30)	SW846 8260B
Acrylonitrile	88	(62 - 133)			SW846 8260B
	88	(62 - 133)	0.01	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl acetate	128	(43 - 157)			SW846 8260B
	118	(43 - 157)	8.6	(0-30)	SW846 8260B
Dibromomethane	105	(77 - 121)			SW846 8260B
	109	(77 - 121)	4.5	(0-30)	SW846 8260B
1,2-Dichlorobenzene	88	(75 - 111)			SW846 8260B
	97	(75 - 111)	11	(0-30)	SW846 8260B
1,3-Dichlorobenzene	85	(73 - 110)			SW846 8260B
	94	(73 - 110)	9.4	(0-30)	SW846 8260B
1,4-Dichlorobenzene	86	(75 - 110)			SW846 8260B
	92	(75 - 110)	7.4	(0-30)	SW846 8260B
Iodomethane	102	(66 - 144)			SW846 8260B
	116	(66 - 144)	13	(0-30)	SW846 8260B
Isopropyl ether	90	(73 - 118)			SW846 8260B
	85	(73 - 118)	4.9	(0-30)	SW846 8260B
Dichlorodifluoromethane	66	(17 - 128)			SW846 8260B
	58	(17 - 128)	12	(0-30)	SW846 8260B
1,1-Dichloroethane	99	(79 - 116)			SW846 8260B
	91	(79 - 116)	7.6	(0-30)	SW846 8260B
1,2-Dichloroethane	103	(68 - 129)			SW846 8260B
	110	(68 - 129)	6.9	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	97	(70 - 120)			SW846 8260B
	94	(70 - 120)	3.4	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	86	(80 - 119)			SW846 8260B
	90	(80 - 119)	4.5	(0-30)	SW846 8260B
1,1-Dichloroethene	90	(74 - 135)			SW846 8260B
	92	(74 - 135)	2.8	(0-30)	SW846 8260B
1,2-Dichloropropane	99	(78 - 115)			SW846 8260B
	106	(78 - 115)	6.8	(0-30)	SW846 8260B
1,3-Dichloropropane	90	(74 - 118)			SW846 8260B
	97	(74 - 118)	7.9	(0-30)	SW846 8260B
2,2-Dichloropropane	96	(38 - 127)			SW846 8260B
	104	(38 - 127)	7.9	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	90	(51 - 110)			SW846 8260B
	99	(51 - 110)	9.2	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	93	(46 - 116)			SW846 8260B
	98	(46 - 116)	6.1	(0-30)	SW846 8260B
1,1-Dichloropropene	109	(80 - 114)			SW846 8260B
	109	(80 - 114)	0.50	(0-30)	SW846 8260B
Ethylbenzene	92	(75 - 116)			SW846 8260B
	102	(75 - 116)	10	(0-30)	SW846 8260B
Hexachlorobutadiene	103	(27 - 132)			SW846 8260B
	107	(27 - 132)	4.3	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Isopropylbenzene	95	(68 - 116)			SW846 8260B
	106	(68 - 116)	11	(0-30)	SW846 8260B
p-Isopropyltoluene	97	(64 - 122)			SW846 8260B
	105	(64 - 122)	8.6	(0-30)	SW846 8260B
Methylene chloride	79	(63 - 128)			SW846 8260B
	88	(63 - 128)	10	(0-30)	SW846 8260B
Naphthalene	88	(15 - 158)			SW846 8260B
	100	(15 - 158)	13	(0-30)	SW846 8260B
n-Propylbenzene	91	(64 - 124)			SW846 8260B
	95	(64 - 124)	4.9	(0-30)	SW846 8260B
Styrene	95	(71 - 117)			SW846 8260B
	104	(71 - 117)	9.6	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	90	(64 - 118)			SW846 8260B
	101	(64 - 118)	12	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	85	(63 - 122)			SW846 8260B
	89	(63 - 122)	3.7	(0-30)	SW846 8260B
Tetrachloroethene	97	(70 - 117)			SW846 8260B
	104	(70 - 117)	7.1	(0-30)	SW846 8260B
Toluene	90	(78 - 114)			SW846 8260B
	101	(78 - 114)	11	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	98	(45 - 129)			SW846 8260B
	115	(45 - 129)	16	(0-30)	SW846 8260B
1,2,4-Trichloro- benzene	95	(38 - 138)			SW846 8260B
	114	(38 - 138)	17	(0-30)	SW846 8260B
1,1,1-Trichloroethane	101	(68 - 121)			SW846 8260B
	107	(68 - 121)	6.2	(0-30)	SW846 8260B
1,1,2-Trichloroethane	91	(75 - 115)			SW846 8260B
	100	(75 - 115)	9.6	(0-30)	SW846 8260B
Trichloroethene	105	(66 - 120)			SW846 8260B
	106	(66 - 120)	1.4	(0-30)	SW846 8260B
Trichlorofluoromethane	117	(46 - 157)			SW846 8260B
	108	(46 - 157)	5.5	(0-30)	SW846 8260B
1,2,3-Trichloropropane	90	(67 - 132)			SW846 8260B
	90	(67 - 132)	0.30	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	91	(67 - 124)			SW846 8260B
	101	(67 - 124)	9.9	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	89	(63 - 121)			SW846 8260B
	97	(63 - 121)	8.6	(0-30)	SW846 8260B
Vinyl chloride	86	(49 - 130)			SW846 8260B
	92	(49 - 130)	6.8	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
m-Xylene & p-Xylene	93	(75 - 117)			SW846 8260B
	104	(75 - 117)	10	(0-30)	SW846 8260B
o-Xylene	93	(76 - 116)			SW846 8260B
	106	(76 - 116)	14	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
	92	(63 - 129)
Toluene-d8	91	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)
	99	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD
 Date Sampled...: 01/06/11 09:30 Date Received...: 01/07/11
 Prep Date.....: 01/10/11 Analysis Date...: 01/10/11
 Prep Batch #...: 1010112
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	11	ug/L	106	7.4	SW846 8260B
Bromobenzene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	4.8	SW846 8260B
Acetone	ND	20	19	ug/L	76		SW846 8260B
	ND	20	21	ug/L	84	8.3	SW846 8260B
Carbon disulfide	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	101	6.2	SW846 8260B
Bromochloromethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	105	9.1	SW846 8260B
1,2-Dichloroethene (total)	ND	20	19	ug/L	92		SW846 8260B
	ND	20	19	ug/L	92	0.30	SW846 8260B
Bromodichloromethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	104	4.8	SW846 8260B
2-Butanone	ND	20	21	ug/L	105		SW846 8260B
	ND	20	22	ug/L	112	6.8	SW846 8260B
Bromoform	ND	10	7.7	ug/L	77		SW846 8260B
	ND	10	7.9	ug/L	79	2.6	SW846 8260B
Bromomethane	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	10	ug/L	101	7.5	SW846 8260B
n-Butylbenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	104	6.8	SW846 8260B
4-Methyl-2-pentanone	ND	20	21	ug/L	103		SW846 8260B
	ND	20	21	ug/L	107	3.9	SW846 8260B
sec-Butylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.8	ug/L	98	6.4	SW846 8260B
2-Hexanone	ND	20	18	ug/L	89		SW846 8260B
	ND	20	18	ug/L	92	4.0	SW846 8260B
tert-Butylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.7	ug/L	97	5.6	SW846 8260B
Carbon tetrachloride	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	110	3.1	SW846 8260B
Xylenes (total)	ND	30	28	ug/L	93		SW846 8260B
	ND	30	31	ug/L	104	11	SW846 8260B
Chlorobenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.8	ug/L	98	9.1	SW846 8260B
Dibromochloromethane	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.5	ug/L	95	9.1	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	13	ug/L	125		SW846 8260B
	ND	10	12	ug/L	116	7.0	SW846 8260B
Methyl acetate	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	5.1	SW846 8260B
Chloroethane	ND	10	10	ug/L	104		SW846 8260B
	ND	10	11	ug/L	112	7.1	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.4	ug/L	94	7.9	SW846 8260B
Cyclohexane	ND	10	11	ug/L	114		SW846 8260B
	ND	10	11	ug/L	110	4.2	SW846 8260B
Methylcyclohexane	ND	10	12	ug/L	122		SW846 8260B
	ND	10	11	ug/L	111	9.7	SW846 8260B
Chloroform	ND	10	10	ug/L	98		SW846 8260B
	ND	10	11	ug/L	106	7.6	SW846 8260B
Chloromethane	ND	10	6.4	ug/L	64		SW846 8260B
	ND	10	7.1	ug/L	71	9.2	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	102	7.2	SW846 8260B
2-Chlorotoluene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.1	ug/L	91	5.9	SW846 8260B
Methyl tert-butyl ether	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.4	ug/L	94	7.9	SW846 8260B
n-Hexane	ND	10	13	ug/L	134		SW846 8260B
	ND	10	10	ug/L	102	27	SW846 8260B
4-Chlorotoluene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.1	ug/L	91	5.2	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	0.0	ug/L	0.0 a		SW846 8260B
	ND	10	8.9	ug/L	89 p	200	SW846 8260B
Acetonitrile	ND	30	38	ug/L	127		SW846 8260B
	ND	30	40	ug/L	132	4.5	SW846 8260B
1,2-Dibromoethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.7	ug/L	97	6.0	SW846 8260B
Acrolein	ND	30	27	ug/L	91		SW846 8260B
	ND	30	27	ug/L	91	0.98	SW846 8260B
Acrylonitrile	ND	30	26	ug/L	88		SW846 8260B
	ND	30	26	ug/L	88	0.01	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Vinyl acetate	ND	10	13	ug/L	128		SW846 8260B
	ND	10	12	ug/L	118	8.6	SW846 8260B
Dibromomethane	ND	10	10	ug/L	105		SW846 8260B
	ND	10	11	ug/L	109	4.5	SW846 8260B
1,2-Dichlorobenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.7	ug/L	97	11	SW846 8260B
1,3-Dichlorobenzene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	9.4	ug/L	94	9.4	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.2	ug/L	92	7.4	SW846 8260B
Iodomethane	ND	10	10	ug/L	102		SW846 8260B
	ND	10	12	ug/L	116	13	SW846 8260B
Isopropyl ether	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	8.5	ug/L	85	4.9	SW846 8260B
Dichlorodifluoromethane	ND	10	7.5	ug/L	66		SW846 8260B
	ND	10	6.6	ug/L	58	12	SW846 8260B
1,1-Dichloroethane	1.2	10	11	ug/L	99		SW846 8260B
	1.2	10	10	ug/L	91	7.6	SW846 8260B
1,2-Dichloroethane	ND	10	10	ug/L	103		SW846 8260B
	ND	10	11	ug/L	110	6.9	SW846 8260B
cis-1,2-Dichloroethene	ND	10	10	ug/L	97		SW846 8260B
	ND	10	9.8	ug/L	94	3.4	SW846 8260B
trans-1,2-Dichloroethene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.0	ug/L	90	4.5	SW846 8260B
1,1-Dichloroethene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.2	ug/L	92	2.8	SW846 8260B
1,2-Dichloropropane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	11	ug/L	106	6.8	SW846 8260B
1,3-Dichloropropane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.7	ug/L	97	7.9	SW846 8260B
2,2-Dichloropropane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	104	7.9	SW846 8260B
cis-1,3-Dichloropropene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.9	ug/L	99	9.2	SW846 8260B
trans-1,3-Dichloropropene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.8	ug/L	98	6.1	SW846 8260B
1,1-Dichloropropene	ND	10	11	ug/L	109		SW846 8260B
	ND	10	11	ug/L	109	0.50	SW846 8260B
Ethylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	10	ug/L	102	10	SW846 8260B
Hexachlorobutadiene	ND	10	10	ug/L	103		SW846 8260B
	ND	10	11	ug/L	107	4.3	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Isopropylbenzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	11	ug/L	106	11	SW846 8260B
p-Isopropyltoluene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	11	ug/L	105	8.6	SW846 8260B
Methylene chloride	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	8.8	ug/L	88	10	SW846 8260B
Naphthalene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	10	ug/L	100	13	SW846 8260B
n-Propylbenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.5	ug/L	95	4.9	SW846 8260B
Styrene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	104	9.6	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	10	ug/L	101	12	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.9	ug/L	89	3.7	SW846 8260B
Tetrachloroethene	ND	10	10	ug/L	97		SW846 8260B
	ND	10	11	ug/L	104	7.1	SW846 8260B
Toluene	ND	10	9.2	ug/L	90		SW846 8260B
	ND	10	10	ug/L	101	11	SW846 8260B
1,2,3-Trichlorobenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	11	ug/L	115	16	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	11	ug/L	114	17	SW846 8260B
1,1,1-Trichloroethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	11	ug/L	107	6.2	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	10	ug/L	100	9.6	SW846 8260B
Trichloroethene	1.1	10	12	ug/L	105		SW846 8260B
	1.1	10	12	ug/L	106	1.4	SW846 8260B
Trichlorofluoromethane	5.8	10	17	ug/L	117		SW846 8260B
	5.8	10	17	ug/L	108	5.5	SW846 8260B
1,2,3-Trichloropropane	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.0	ug/L	90	0.30	SW846 8260B
1,2,4-Trimethylbenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	10	ug/L	101	9.9	SW846 8260B
1,3,5-Trimethylbenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.7	ug/L	97	8.6	SW846 8260B
Vinyl chloride	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.2	ug/L	92	6.8	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A1A070479 Work Order #...: MC5JF1AC-MS Matrix.....: WG
 MS Lot-Sample #: A1A070479-001 MC5JF1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
m-Xylene & p-Xylene	ND	20	19	ug/L	93		SW846 8260B
	ND	20	21	ug/L	104	10	SW846 8260B
o-Xylene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	11	ug/L	106	14	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
	92	(63 - 129)
Toluene-d8	91	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)
	99	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

END OF REPORT

ANALYTICAL REPORT

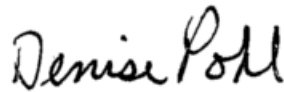
Job Number: 240-1297-1

Job Description: Oak Grove Village

For:

TRW Automotive
24175 Research Drive
Farmington Hills, MI 48335

Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
7/5/2011 5:45 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
07/05/2011

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

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CASE NARRATIVE

Client: TRW Automotive

Project: Oak Grove Village

Report Number: 240-1297-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/18/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample MW-107 BH@185(20110617) (240-1297-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/29/2011.

1,2,3-Trichlorobenzene and Naphthalene were detected in method blank MB 240-6569/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Trichlorofluoromethane failed the recovery criteria high for LCS 240-6569/4. Refer to the QC report for details.

Trichlorofluoromethane failed the recovery criteria high for the MSD of sample 240-1259-22 in batch 240-6569. Bromomethane exceeded the rpd limit.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

Method(s) 8260B: The laboratory control sample (LCS) for batch 6569 exceeded control limits for trichlorofluoromethane. This has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-1297-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
240-1297-1	MW-107 BH@185(20110617)					
Benzene		0.28	J	1.4	ug/L	8260B
Dichlorodifluoromethane		1.7		1.4	ug/L	8260B
Dichlorofluoromethane		37		2.9	ug/L	8260B
Tetrachloroethene		0.49	J	1.4	ug/L	8260B
Toluene		1.6		1.4	ug/L	8260B
Trichloroethene		2.6		1.4	ug/L	8260B
Trichlorofluoromethane		37	*	1.4	ug/L	8260B

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-1297-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B

Lab References:

TAL NC = TestAmerica North Canton

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-1297-1

Method	Analyst	Analyst ID
SW846 8260B	Quayle, Rick	RQ

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-1297-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-1297-1	MW-107 BH@185(20110617)	Water	06/17/2011 0755	06/18/2011 1000

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-1297-1

Client Sample ID: MW-107 BH@185(20110617)

Lab Sample ID: 240-1297-1

Date Sampled: 06/17/2011 0755

Client Matrix: Water

Date Received: 06/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX2790.D
Dilution:	1.42857			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1418				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.28	J	0.19	1.4
Bromobenzene	1.4	U	0.19	1.4
Bromoform	1.4	U	0.91	1.4
Bromomethane	1.4	U	0.59	1.4
Carbon tetrachloride	1.4	U	0.19	1.4
Chlorobenzene	1.4	U	0.21	1.4
Dibromochloromethane	1.4	U	0.26	1.4
Chloroethane	1.4	U	0.41	1.4
Chloroform	1.4	U	0.23	1.4
Chloromethane	1.4	U	0.43	1.4
2-Chlorotoluene	1.4	U	0.16	1.4
4-Chlorotoluene	1.4	U	0.26	1.4
cis-1,2-Dichloroethene	1.4	U	0.24	1.4
cis-1,3-Dichloropropene	1.4	U	0.20	1.4
Dibromomethane	1.4	U	0.40	1.4
1,2-Dichlorobenzene	1.4	U	0.19	1.4
1,3-Dichlorobenzene	1.4	U	0.20	1.4
1,4-Dichlorobenzene	1.4	U	0.19	1.4
Bromodichloromethane	1.4	U	0.21	1.4
Dichlorodifluoromethane	1.7		0.44	1.4
1,1-Dichloroethane	1.4	U	0.21	1.4
1,2-Dichloroethane	1.4	U	0.31	1.4
1,1-Dichloroethene	1.4	U	0.27	1.4
Dichlorofluoromethane	37		0.60	2.9
1,2-Dichloropropane	1.4	U	0.26	1.4
1,3-Dichloropropane	1.4	U	0.23	1.4
2,2-Dichloropropane	1.4	U	0.19	1.4
1,1-Dichloropropene	1.4	U	0.19	1.4
Ethylbenzene	1.4	U	0.24	1.4
Hexachlorobutadiene	1.4	U	0.43	1.4
Isopropylbenzene	1.4	U	0.19	1.4
p-Isopropyltoluene	1.4	U	0.17	1.4
Methylene Chloride	1.4	U	0.47	1.4
m-Xylene & p-Xylene	2.9	U	0.34	2.9
Naphthalene	1.4	U	0.34	1.4
n-Butylbenzene	1.4	U	0.17	1.4
N-Propylbenzene	1.4	U	0.20	1.4
o-Xylene	1.4	U	0.20	1.4
sec-Butylbenzene	1.4	U	0.19	1.4
Styrene	1.4	U	0.16	1.4
tert-Butylbenzene	1.4	U	0.19	1.4
1,1,1,2-Tetrachloroethane	1.4	U	0.33	1.4
1,1,2,2-Tetrachloroethane	1.4	U	0.26	1.4
Tetrachloroethene	0.49	J	0.41	1.4
Toluene	1.6		0.19	1.4
trans-1,2-Dichloroethene	1.4	U	0.27	1.4

Analytical Data

Client: TRW Automotive

Job Number: 240-1297-1

Client Sample ID: MW-107 BH@185(20110617)

Lab Sample ID: 240-1297-1

Date Sampled: 06/17/2011 0755

Client Matrix: Water

Date Received: 06/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX2790.D
Dilution:	1.42857			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1418				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.4	U	0.27	1.4
1,2,3-Trichlorobenzene	1.4	U	0.24	1.4
1,2,4-Trichlorobenzene	1.4	U	0.21	1.4
1,1,1-Trichloroethane	1.4	U	0.31	1.4
1,1,2-Trichloroethane	1.4	U	0.39	1.4
Trichloroethene	2.6		0.24	1.4
Trichlorofluoromethane	37	*	0.30	1.4
1,2,3-Trichloropropane	1.4	U	0.61	1.4
1,2,4-Trimethylbenzene	1.4	U	0.17	1.4
1,3,5-Trimethylbenzene	1.4	U	0.14	1.4
Vinyl chloride	1.4	U	0.31	1.4
Bromochloromethane	1.4	U	0.41	1.4
1,2-Dibromoethane	1.4	U	0.34	1.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	88		75 - 121
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
Toluene-d8 (Surr)	92		74 - 115

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-1297-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-6569					
LCS 240-6569/4	Lab Control Sample	T	Water	8260B	
MB 240-6569/5	Method Blank	T	Water	8260B	
240-1297-1	MW-107 BH@185(20110617)	T	Water	8260B	

Report Basis

T = Total

Client: TRW Automotive

Job Number: 240-1297-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-1297-1	MW-107 BH@185(20110617)	82	88	87	92
MB 240-6569/5		86	86	87	94
LCS 240-6569/4		100	86	86	97

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

Method Blank - Batch: 240-6569

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-6569/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2011 1354
 Prep Date: 06/29/2011 1354
 Leach Date: N/A

Analysis Batch: 240-6569
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX10
 Lab File ID: UXX2789.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.686	J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

Method Blank - Batch: 240-6569

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-6569/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2011 1354
 Prep Date: 06/29/2011 1354
 Leach Date: N/A

Analysis Batch: 240-6569
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX10
 Lab File ID: UXX2789.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	0.377	J	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	66 - 117
Dibromofluoromethane (Surr)	86	75 - 121
1,2-Dichloroethane-d4 (Surr)	87	63 - 129
Toluene-d8 (Surr)	94	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

Lab Control Sample - Batch: 240-6569

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 240-6569/4	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX2788.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1332	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1332				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	8.90	89	83 - 112	
Bromobenzene	10.0	9.45	95	76 - 115	
Bromoform	10.0	9.37	94	40 - 131	
Bromomethane	10.0	4.90	49	11 - 185	
Carbon tetrachloride	10.0	11.4	114	66 - 128	
Chlorobenzene	10.0	8.87	89	85 - 110	
Chloroethane	10.0	5.50	55	25 - 153	
Chloroform	10.0	8.32	83	79 - 117	
Chloromethane	10.0	6.88	69	44 - 126	
2-Chlorotoluene	10.0	9.52	95	76 - 116	
4-Chlorotoluene	10.0	9.52	95	77 - 115	
cis-1,2-Dichloroethene	10.0	8.35	84	80 - 113	
cis-1,3-Dichloropropene	10.0	9.07	91	61 - 115	
Dibromomethane	10.0	9.26	93	81 - 120	
1,2-Dichlorobenzene	10.0	8.87	89	81 - 110	
1,3-Dichlorobenzene	10.0	8.88	89	80 - 110	
1,4-Dichlorobenzene	10.0	8.83	88	82 - 110	
Bromodichloromethane	10.0	9.09	91	72 - 121	
Dichlorodifluoromethane	10.0	6.52	65	19 - 129	
1,1-Dichloroethane	10.0	8.48	85	82 - 115	
1,2-Dichloroethane	10.0	8.79	88	71 - 127	
1,1-Dichloroethene	10.0	9.34	93	78 - 131	
1,2-Dichloropropane	10.0	9.30	93	81 - 115	
1,3-Dichloropropane	10.0	9.61	96	79 - 116	
2,2-Dichloropropane	10.0	7.83	78	50 - 129	
1,1-Dichloropropene	10.0	9.53	95	83 - 114	
Ethylbenzene	10.0	9.33	93	83 - 112	
Hexachlorobutadiene	10.0	7.81	78	36 - 134	
Isopropylbenzene	10.0	9.08	91	75 - 114	
p-Isopropyltoluene	10.0	9.34	93	74 - 120	
Methylene Chloride	10.0	7.21	72	66 - 131	
m-Xylene & p-Xylene	20.0	18.6	93	83 - 113	
Naphthalene	10.0	7.57	76	32 - 141	
n-Butylbenzene	10.0	9.63	96	66 - 125	
N-Propylbenzene	10.0	10.4	104	74 - 121	
o-Xylene	10.0	9.13	91	83 - 113	
sec-Butylbenzene	10.0	9.79	98	70 - 117	
Styrene	10.0	9.41	94	79 - 114	
tert-Butylbenzene	10.0	9.71	97	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	8.63	86	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	9.62	96	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

Lab Control Sample - Batch: 240-6569

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 240-6569/4	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX2788.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1332	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1332				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	9.43	94	79 - 114	
Toluene	10.0	9.33	93	84 - 111	
trans-1,2-Dichloroethene	10.0	8.45	85	83 - 117	
trans-1,3-Dichloropropene	10.0	9.60	96	58 - 117	
1,2,3-Trichlorobenzene	10.0	7.88	79	54 - 126	
1,2,4-Trichlorobenzene	10.0	7.73	77	48 - 135	
1,1,1-Trichloroethane	10.0	8.52	85	74 - 118	
1,1,2-Trichloroethane	10.0	9.39	94	80 - 112	
Trichloroethene	10.0	9.13	91	76 - 117	
Trichlorofluoromethane	10.0	16.7	167	49 - 157	*
1,2,3-Trichloropropane	10.0	9.89	99	73 - 129	
1,2,4-Trimethylbenzene	10.0	9.78	98	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.81	98	72 - 118	
Vinyl chloride	10.0	7.32	73	53 - 127	
Bromochloromethane	10.0	8.57	86	77 - 120	
1,2-Dibromoethane	10.0	9.51	95	79 - 113	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	100	66 - 117
Dibromofluoromethane (Surr)	86	75 - 121
1,2-Dichloroethane-d4 (Surr)	86	63 - 129
Toluene-d8 (Surr)	97	74 - 115

TestAmerica Cooler Receipt Form/Narrative

Lot Number: #1297

North Canton Facility

Client Arcadis Project Sullivan Mo By: [Signature]

Cooler Received on 6/18/11 Opened on 6-20-11 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐

TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐

If YES, Quantity 2 Quantity Unsalvageable _____

Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐

Were custody seals on the bottle(s)? Yes ☐ No ☒

If YES, are there any exceptions? _____

2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐

3. Did custody papers accompany the sample(s)? Yes ☐ No ☐ Relinquished by client? Yes ☐ No ☐

4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____

6. Cooler temperature upon receipt 3.2 °C See back of form for multiple coolers/temps ☐

METHOD: IR ☒ Other ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐

9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒

10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐

12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐

Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative

North Canton Facility

[illegible]

Discrepancies Cont'd:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings visible.

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-1297-1

Login Number: 1297

List Source: TestAmerica North Canton

List Number: 1

Creator: Sutek, Nick

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

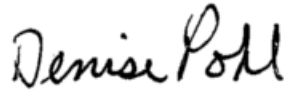
Job Number: 240-1297-1

Job Description: Oak Grove Village

For:

TRW Automotive
24175 Research Drive
Farmington Hills, MI 48335

Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
7/5/2011 5:45 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
07/05/2011

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

CASE NARRATIVE

Client: TRW Automotive

Project: Oak Grove Village

Report Number: 240-1297-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/18/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample MW-107 BH@185(20110617) (240-1297-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/29/2011.

1,2,3-Trichlorobenzene and Naphthalene were detected in method blank MB 240-6569/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Trichlorofluoromethane failed the recovery criteria high for LCS 240-6569/4. Refer to the QC report for details.

Trichlorofluoromethane failed the recovery criteria high for the MSD of sample 240-1259-22 in batch 240-6569. Bromomethane exceeded the rpd limit.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

Method(s) 8260B: The laboratory control sample (LCS) for batch 6569 exceeded control limits for trichlorofluoromethane. This has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-1297-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
240-1297-1	MW-107 BH@185(20110617)					
Benzene		0.28	J	1.4	ug/L	8260B
Dichlorodifluoromethane		1.7		1.4	ug/L	8260B
Dichlorofluoromethane		37		2.9	ug/L	8260B
Tetrachloroethene		0.49	J	1.4	ug/L	8260B
Toluene		1.6		1.4	ug/L	8260B
Trichloroethene		2.6		1.4	ug/L	8260B
Trichlorofluoromethane		37	*	1.4	ug/L	8260B

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-1297-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B

Lab References:

TAL NC = TestAmerica North Canton

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-1297-1

Method	Analyst	Analyst ID
SW846 8260B	Quayle, Rick	RQ

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-1297-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-1297-1	MW-107 BH@185(20110617)	Water	06/17/2011 0755	06/18/2011 1000

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-1297-1

Client Sample ID: MW-107 BH@185(20110617)

Lab Sample ID: 240-1297-1

Date Sampled: 06/17/2011 0755

Client Matrix: Water

Date Received: 06/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX2790.D
Dilution:	1.42857			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1418				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.28	J	0.19	1.4
Bromobenzene	1.4	U	0.19	1.4
Bromoform	1.4	U	0.91	1.4
Bromomethane	1.4	U	0.59	1.4
Carbon tetrachloride	1.4	U	0.19	1.4
Chlorobenzene	1.4	U	0.21	1.4
Dibromochloromethane	1.4	U	0.26	1.4
Chloroethane	1.4	U	0.41	1.4
Chloroform	1.4	U	0.23	1.4
Chloromethane	1.4	U	0.43	1.4
2-Chlorotoluene	1.4	U	0.16	1.4
4-Chlorotoluene	1.4	U	0.26	1.4
cis-1,2-Dichloroethene	1.4	U	0.24	1.4
cis-1,3-Dichloropropene	1.4	U	0.20	1.4
Dibromomethane	1.4	U	0.40	1.4
1,2-Dichlorobenzene	1.4	U	0.19	1.4
1,3-Dichlorobenzene	1.4	U	0.20	1.4
1,4-Dichlorobenzene	1.4	U	0.19	1.4
Bromodichloromethane	1.4	U	0.21	1.4
Dichlorodifluoromethane	1.7		0.44	1.4
1,1-Dichloroethane	1.4	U	0.21	1.4
1,2-Dichloroethane	1.4	U	0.31	1.4
1,1-Dichloroethene	1.4	U	0.27	1.4
Dichlorofluoromethane	37		0.60	2.9
1,2-Dichloropropane	1.4	U	0.26	1.4
1,3-Dichloropropane	1.4	U	0.23	1.4
2,2-Dichloropropane	1.4	U	0.19	1.4
1,1-Dichloropropene	1.4	U	0.19	1.4
Ethylbenzene	1.4	U	0.24	1.4
Hexachlorobutadiene	1.4	U	0.43	1.4
Isopropylbenzene	1.4	U	0.19	1.4
p-Isopropyltoluene	1.4	U	0.17	1.4
Methylene Chloride	1.4	U	0.47	1.4
m-Xylene & p-Xylene	2.9	U	0.34	2.9
Naphthalene	1.4	U	0.34	1.4
n-Butylbenzene	1.4	U	0.17	1.4
N-Propylbenzene	1.4	U	0.20	1.4
o-Xylene	1.4	U	0.20	1.4
sec-Butylbenzene	1.4	U	0.19	1.4
Styrene	1.4	U	0.16	1.4
tert-Butylbenzene	1.4	U	0.19	1.4
1,1,1,2-Tetrachloroethane	1.4	U	0.33	1.4
1,1,2,2-Tetrachloroethane	1.4	U	0.26	1.4
Tetrachloroethene	0.49	J	0.41	1.4
Toluene	1.6		0.19	1.4
trans-1,2-Dichloroethene	1.4	U	0.27	1.4

Analytical Data

Client: TRW Automotive

Job Number: 240-1297-1

Client Sample ID: MW-107 BH@185(20110617)

Lab Sample ID: 240-1297-1

Date Sampled: 06/17/2011 0755

Client Matrix: Water

Date Received: 06/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX2790.D
Dilution:	1.42857			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1418				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.4	U	0.27	1.4
1,2,3-Trichlorobenzene	1.4	U	0.24	1.4
1,2,4-Trichlorobenzene	1.4	U	0.21	1.4
1,1,1-Trichloroethane	1.4	U	0.31	1.4
1,1,2-Trichloroethane	1.4	U	0.39	1.4
Trichloroethene	2.6		0.24	1.4
Trichlorofluoromethane	37	*	0.30	1.4
1,2,3-Trichloropropane	1.4	U	0.61	1.4
1,2,4-Trimethylbenzene	1.4	U	0.17	1.4
1,3,5-Trimethylbenzene	1.4	U	0.14	1.4
Vinyl chloride	1.4	U	0.31	1.4
Bromochloromethane	1.4	U	0.41	1.4
1,2-Dibromoethane	1.4	U	0.34	1.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	82		66 - 117
Dibromofluoromethane (Surr)	88		75 - 121
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
Toluene-d8 (Surr)	92		74 - 115

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-1297-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-6569					
LCS 240-6569/4	Lab Control Sample	T	Water	8260B	
MB 240-6569/5	Method Blank	T	Water	8260B	
240-1297-1	MW-107 BH@185(20110617)	T	Water	8260B	

Report Basis

T = Total

Client: TRW Automotive

Job Number: 240-1297-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-1297-1	MW-107 BH@185(20110617)	82	88	87	92
MB 240-6569/5		86	86	87	94
LCS 240-6569/4		100	86	86	97

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

Method Blank - Batch: 240-6569

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-6569/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2011 1354
 Prep Date: 06/29/2011 1354
 Leach Date: N/A

Analysis Batch: 240-6569
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX10
 Lab File ID: UXX2789.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	0.686	J	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

Method Blank - Batch: 240-6569

Method: 8260B

Preparation: 5030B

Lab Sample ID:	MB 240-6569/5	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX2789.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1354	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1354				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	0.377	J	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	66 - 117
Dibromofluoromethane (Surr)	86	75 - 121
1,2-Dichloroethane-d4 (Surr)	87	63 - 129
Toluene-d8 (Surr)	94	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

Lab Control Sample - Batch: 240-6569

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-6569/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2011 1332
Prep Date: 06/29/2011 1332
Leach Date: N/A

Analysis Batch: 240-6569
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX10
Lab File ID: UXX2788.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	8.90	89	83 - 112	
Bromobenzene	10.0	9.45	95	76 - 115	
Bromoform	10.0	9.37	94	40 - 131	
Bromomethane	10.0	4.90	49	11 - 185	
Carbon tetrachloride	10.0	11.4	114	66 - 128	
Chlorobenzene	10.0	8.87	89	85 - 110	
Chloroethane	10.0	5.50	55	25 - 153	
Chloroform	10.0	8.32	83	79 - 117	
Chloromethane	10.0	6.88	69	44 - 126	
2-Chlorotoluene	10.0	9.52	95	76 - 116	
4-Chlorotoluene	10.0	9.52	95	77 - 115	
cis-1,2-Dichloroethene	10.0	8.35	84	80 - 113	
cis-1,3-Dichloropropene	10.0	9.07	91	61 - 115	
Dibromomethane	10.0	9.26	93	81 - 120	
1,2-Dichlorobenzene	10.0	8.87	89	81 - 110	
1,3-Dichlorobenzene	10.0	8.88	89	80 - 110	
1,4-Dichlorobenzene	10.0	8.83	88	82 - 110	
Bromodichloromethane	10.0	9.09	91	72 - 121	
Dichlorodifluoromethane	10.0	6.52	65	19 - 129	
1,1-Dichloroethane	10.0	8.48	85	82 - 115	
1,2-Dichloroethane	10.0	8.79	88	71 - 127	
1,1-Dichloroethene	10.0	9.34	93	78 - 131	
1,2-Dichloropropane	10.0	9.30	93	81 - 115	
1,3-Dichloropropane	10.0	9.61	96	79 - 116	
2,2-Dichloropropane	10.0	7.83	78	50 - 129	
1,1-Dichloropropene	10.0	9.53	95	83 - 114	
Ethylbenzene	10.0	9.33	93	83 - 112	
Hexachlorobutadiene	10.0	7.81	78	36 - 134	
Isopropylbenzene	10.0	9.08	91	75 - 114	
p-Isopropyltoluene	10.0	9.34	93	74 - 120	
Methylene Chloride	10.0	7.21	72	66 - 131	
m-Xylene & p-Xylene	20.0	18.6	93	83 - 113	
Naphthalene	10.0	7.57	76	32 - 141	
n-Butylbenzene	10.0	9.63	96	66 - 125	
N-Propylbenzene	10.0	10.4	104	74 - 121	
o-Xylene	10.0	9.13	91	83 - 113	
sec-Butylbenzene	10.0	9.79	98	70 - 117	
Styrene	10.0	9.41	94	79 - 114	
tert-Butylbenzene	10.0	9.71	97	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	8.63	86	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	9.62	96	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-1297-1

Lab Control Sample - Batch: 240-6569

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 240-6569/4	Analysis Batch:	240-6569	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX2788.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2011 1332	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/29/2011 1332				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	9.43	94	79 - 114	
Toluene	10.0	9.33	93	84 - 111	
trans-1,2-Dichloroethene	10.0	8.45	85	83 - 117	
trans-1,3-Dichloropropene	10.0	9.60	96	58 - 117	
1,2,3-Trichlorobenzene	10.0	7.88	79	54 - 126	
1,2,4-Trichlorobenzene	10.0	7.73	77	48 - 135	
1,1,1-Trichloroethane	10.0	8.52	85	74 - 118	
1,1,2-Trichloroethane	10.0	9.39	94	80 - 112	
Trichloroethene	10.0	9.13	91	76 - 117	
Trichlorofluoromethane	10.0	16.7	167	49 - 157	*
1,2,3-Trichloropropane	10.0	9.89	99	73 - 129	
1,2,4-Trimethylbenzene	10.0	9.78	98	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.81	98	72 - 118	
Vinyl chloride	10.0	7.32	73	53 - 127	
Bromochloromethane	10.0	8.57	86	77 - 120	
1,2-Dibromoethane	10.0	9.51	95	79 - 113	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	100	66 - 117
Dibromofluoromethane (Surr)	86	75 - 121
1,2-Dichloroethane-d4 (Surr)	86	63 - 129
Toluene-d8 (Surr)	97	74 - 115

TestAmerica Cooler Receipt Form/Narrative

Lot Number: #1297

North Canton Facility

Client Arcadis Project Sullivan Mo By: [Signature]

Cooler Received on 6/18/11 Opened on 6-20-11 (Signature)

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐

TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐

If YES, Quantity 2 Quantity Unsalvageable _____

Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐

Were custody seals on the bottle(s)? Yes ☐ No ☒

If YES, are there any exceptions? _____

2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐

3. Did custody papers accompany the sample(s)? Yes ☐ No ☐ Relinquished by client? Yes ☐ No ☐

4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____

6. Cooler temperature upon receipt 3.2 °C See back of form for multiple coolers/temps ☐

METHOD: IR ☒ Other ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐

9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒

10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐

12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐

Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative

North Canton Facility

[illegible]

Discrepancies Cont'd:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Login Sample Receipt Checklist

Client: TRW Automotive

Job Number: 240-1297-1

Login Number: 1297

List Source: TestAmerica North Canton

List Number: 1

Creator: Sutek, Nick

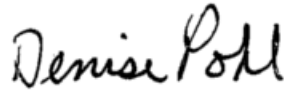
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 240-12473-1

Job Description: Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
7/6/2012 12:58 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
07/06/2012

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

CASE NARRATIVE

Client: TRW Automotive

Project: Oak Grove Village

Report Number: 240-12473-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/20/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 and 0.8 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-107S (20120619) (240-12473-1), MW-107D (20120618) (240-12473-2), MW-105 (20120619) (240-12473-3), DUP-1 (20120619) (240-12473-4) and TRIP BLANK (240-12473-5) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/28/2012 and 06/29/2012.

Hexachlorobutadiene and Methylene Chloride were detected in method blank MB 240-49242/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Hexachlorobutadiene was detected in method blank MB 240-49395/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

1,1,1,2-Tetrachloroethane and 1,1-Dichloroethane failed the recovery criteria high for the MSD of sample 240-12482-15 in batch 240-49395.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Method(s) 8260B: No MS/MSD in batch 49242 due to incorrect sample dilution.

Refer to the QC report for details.

Sample MW-107S (20120619) (240-12473-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-107S (20120619) (240-12473-1), MW-107D (20120618) (240-12473-2), MW-105 (20120619) (240-12473-3) and DUP-1 (20120619) (240-12473-4) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/27/2012 and analyzed on 06/29/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Several analytes were detected in method blank MB 240-49010/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

DISSOLVED METALS (ICPMS)

Samples MW-107S (20120619) (240-12473-1), MW-107D (20120618) (240-12473-2), MW-105 (20120619) (240-12473-3) and DUP-1 (20120619) (240-12473-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/27/2012 and analyzed on 06/28/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Strontium was detected in method blank MB 240-49010/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

ALKALINITY

Samples MW-107S (20120619) (240-12473-1), MW-107D (20120618) (240-12473-2), MW-105 (20120619) (240-12473-3) and DUP-1 (20120619) (240-12473-4) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/22/2012.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Samples MW-107S (20120619) (240-12473-1), MW-107D (20120618) (240-12473-2), MW-105 (20120619) (240-12473-3) and DUP-1 (20120619) (240-12473-4) were analyzed for dissolved ammonia in accordance with SM 4500 NH3 F. The samples were analyzed on 06/28/2012.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED PHOSPHORUS

Samples MW-107S (20120619) (240-12473-1), MW-107D (20120618) (240-12473-2), MW-105 (20120619) (240-12473-3) and DUP-1 (20120619) (240-12473-4) were analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 06/26/2012.

No difficulties were encountered during the phosphorus analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-107S (20120619) (240-12473-1), MW-107D (20120618) (240-12473-2), MW-105 (20120619) (240-12473-3) and DUP-1 (20120619) (240-12473-4) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were

analyzed on 06/20/2012.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-107S (20120619) (240-12473-1), MW-107D (20120618) (240-12473-2), MW-105 (20120619) (240-12473-3) and DUP-1 (20120619) (240-12473-4) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 07/03/2012.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12473-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12473-1	MW-107S (20120619)					
Chloroform		0.18	J	1.0	ug/L	8260B
Dichlorodifluoromethane		2.1		1.0	ug/L	8260B
1,1-Dichloroethane		0.53	J	1.0	ug/L	8260B
Dichlorofluoromethane		54		4.0	ug/L	8260B
Tetrachloroethene		0.41	J	1.0	ug/L	8260B
Trichloroethene		2.7		1.0	ug/L	8260B
Trichlorofluoromethane		46		2.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		230		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		54	J B	200	ug/L	6010B
Calcium		55000	B	5000	ug/L	6010B
Potassium		1200	J	5000	ug/L	6010B
Magnesium		30000	B	5000	ug/L	6010B
Manganese		1.2	J B	15	ug/L	6010B
Sodium		3100	J	5000	ug/L	6010B
Zinc		410	B	20	ug/L	6010B
Lead		3.2		3.0	ug/L	6010B
SiO2, Silica		9800		1100	ug/L	6010B
Strontium		44	B	10	ug/L	6020
Chloride-Dissolved		3.1		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.67		0.10	mg/L	9056A
Fluoride-Dissolved		0.064	J	1.0	mg/L	9056A
Sulfate-Dissolved		18		1.0	mg/L	9056A

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12473-1

Lab Sample ID	Client Sample ID			Reporting		
Analyte		Result	Qualifier	Limit	Units	Method
<hr/>						
240-12473-2	MW-107D (20120618)					
Dichlorofluoromethane		2.7		2.0	ug/L	8260B
Trichloroethene		0.23	J	1.0	ug/L	8260B
Trichlorofluoromethane		3.0		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		180		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		160	J B	200	ug/L	6010B
Calcium		40000	B	5000	ug/L	6010B
Potassium		1200	J	5000	ug/L	6010B
Magnesium		24000	B	5000	ug/L	6010B
Manganese		1.5	J B	15	ug/L	6010B
Sodium		3300	J	5000	ug/L	6010B
Zinc		250	B	20	ug/L	6010B
Lead		2.5	J	3.0	ug/L	6010B
Lithium		1.9	J	50	ug/L	6010B
SiO2, Silica		9400		1100	ug/L	6010B
Strontium		42	B	10	ug/L	6020
Chloride-Dissolved		1.3		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.081	J	0.10	mg/L	9056A
Fluoride-Dissolved		0.051	J	1.0	mg/L	9056A
Sulfate-Dissolved		14		1.0	mg/L	9056A

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12473-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12473-3	MW-105 (20120619)					
Chloroform		0.26	J	1.0	ug/L	8260B
Dichlorodifluoromethane		1.4		1.0	ug/L	8260B
1,1-Dichloroethane		2.8		1.0	ug/L	8260B
Dichlorofluoromethane		40		2.0	ug/L	8260B
Tetrachloroethene		0.37	J	1.0	ug/L	8260B
Trichloroethene		1.0		1.0	ug/L	8260B
Trichlorofluoromethane		7.6		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		330		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		120	J B	200	ug/L	6010B
Boron		40	J	200	ug/L	6010B
Calcium		72000	B	5000	ug/L	6010B
Potassium		3300	J	5000	ug/L	6010B
Magnesium		39000	B	5000	ug/L	6010B
Manganese		0.41	J B	15	ug/L	6010B
Sodium		7600		5000	ug/L	6010B
Zinc		7.8	J B	20	ug/L	6010B
Lead		2.2	J	3.0	ug/L	6010B
SiO2, Silica		13000		1100	ug/L	6010B
Strontium		89	B	10	ug/L	6020
Chloride-Dissolved		8.3		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.8		0.10	mg/L	9056A
Fluoride-Dissolved		0.015	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.14	J	0.50	mg/L	9056A
Sulfate-Dissolved		8.2		1.0	mg/L	9056A
Ammonia-Dissolved		0.043	J	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12473-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12473-4FD	DUP-1 (20120619)					
Chloroform		0.25	J	1.0	ug/L	8260B
Dichlorodifluoromethane		1.2		1.0	ug/L	8260B
1,1-Dichloroethane		2.8		1.0	ug/L	8260B
Dichlorofluoromethane		35		2.0	ug/L	8260B
Tetrachloroethene		0.29	J	1.0	ug/L	8260B
Trichloroethene		1.1		1.0	ug/L	8260B
Trichlorofluoromethane		6.9		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		310		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		120	J B	200	ug/L	6010B
Boron		39	J	200	ug/L	6010B
Calcium		71000	B	5000	ug/L	6010B
Potassium		3200	J	5000	ug/L	6010B
Magnesium		38000	B	5000	ug/L	6010B
Sodium		7400		5000	ug/L	6010B
Zinc		9.5	J B	20	ug/L	6010B
SiO2, Silica		13000		1100	ug/L	6010B
Strontium		91	B	10	ug/L	6020
Chloride-Dissolved		8.2		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.7		0.10	mg/L	9056A
Fluoride-Dissolved		0.020	J	1.0	mg/L	9056A
Sulfate-Dissolved		8.2		1.0	mg/L	9056A

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-12473-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC/MS)		TAL NC	SW846 8260B	
	Purge and Trap	TAL NC		SW846 5030B
Metals (ICP)		TAL NC	SW846 6010B	
	Preparation, Total Recoverable or Dissolved Metals	TAL NC		SW846 3005A
	Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)		TAL NC	SW846 6020	
	Preparation, Total Recoverable or Dissolved Metals	TAL NC		SW846 3005A
	Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography		TAL NC	SW846 9056A	
	Sample Filtration, Field			FIELD_FLTRD
Alkalinity		TAL NC	SM SM 2320B	
Phosphorus		TAL NC	SM SM 4500 P E	
	Phosphorus, Total	TAL NC		MCAWW 365.2/365.3/365
	Sample Filtration, Field			FIELD_FLTRD
Ammonia		TAL NC	SM18 SM4500 NH3 -F	
	Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL NC = TestAmerica Canton

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-12473-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LE
SW846 6010B	Musselman, Natalie J	NJM
SW846 6020	Counts, Karen	KC
SW846 9056A	Burns, Jill	JB
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Burns, Jill	JB
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Grossman, Lucas	LG

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-12473-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-12473-1	MW-107S (20120619)	Water	06/19/2012 1140	06/20/2012 0910
240-12473-2	MW-107D (20120618)	Water	06/18/2012 1755	06/20/2012 0910
240-12473-3	MW-105 (20120619)	Water	06/19/2012 1505	06/20/2012 0910
240-12473-4FD	DUP-1 (20120619)	Water	06/19/2012 0000	06/20/2012 0910
240-12473-5TB	TRIP BLANK	Water	06/19/2012 0000	06/20/2012 0910

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49242

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4785.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/28/2012 1544

Final Weight/Volume: 5 mL

Prep Date: 06/28/2012 1544

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.18	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.1		0.31	1.0
1,1-Dichloroethane	0.53	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.41	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4785.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1544			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1544				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.7		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	106		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49395	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4811.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2012 1452			Final Weight/Volume:	5 mL
Prep Date:	06/29/2012 1452				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	54		0.84	4.0
Trichlorofluoromethane	46		0.42	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	110		75 - 121
1,2-Dichloroethane-d4 (Surr)	113		63 - 129
Toluene-d8 (Surr)	101		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107D (20120618)

Lab Sample ID: 240-12473-2

Date Sampled: 06/18/2012 1755

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49242

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4786.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/28/2012 1606

Final Weight/Volume: 5 mL

Prep Date: 06/28/2012 1606

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.7		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107D (20120618)

Lab Sample ID: 240-12473-2

Date Sampled: 06/18/2012 1755

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4786.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.23	J	0.17	1.0
Trichlorofluoromethane	3.0		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	98		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-105 (20120619)

Lab Sample ID: 240-12473-3

Date Sampled: 06/19/2012 1505

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49242

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4787.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/28/2012 1628

Final Weight/Volume: 5 mL

Prep Date: 06/28/2012 1628

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.26	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.4		0.31	1.0
1,1-Dichloroethane	2.8		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	40		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.37	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-105 (20120619)

Lab Sample ID: 240-12473-3

Date Sampled: 06/19/2012 1505

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49242

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4787.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/28/2012 1628

Final Weight/Volume: 5 mL

Prep Date: 06/28/2012 1628

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0		0.17	1.0
Trichlorofluoromethane	7.6		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		66 - 117
Dibromofluoromethane (Surr)	111		75 - 121
1,2-Dichloroethane-d4 (Surr)	112		63 - 129
Toluene-d8 (Surr)	100		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: DUP-1 (20120619)

Lab Sample ID: 240-12473-4FD

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4788.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1651			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.25	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.2		0.31	1.0
1,1-Dichloroethane	2.8		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	35		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.29	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: DUP-1 (20120619)

Lab Sample ID: 240-12473-4FD

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4788.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1651			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.1		0.17	1.0
Trichlorofluoromethane	6.9		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
1,2-Dichloroethane-d4 (Surr)	111		63 - 129
Toluene-d8 (Surr)	101		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12473-5TB

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49242

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4789.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/28/2012 1714

Final Weight/Volume: 5 mL

Prep Date: 06/28/2012 1714

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12473-5TB

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/20/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49242	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4789.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2012 1714			Final Weight/Volume:	5 mL
Prep Date:	06/28/2012 1714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		66 - 117
Dibromofluoromethane (Surr)	105		75 - 121
1,2-Dichloroethane-d4 (Surr)	112		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107S (20120619)

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1301			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	54	J B	0.67	200
Boron	200	U	34	200
Calcium	55000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J	72	5000
Magnesium	30000	B	34	5000
Manganese	1.2	J B	0.41	15
Sodium	3100	J	590	5000
Nickel	40	U	3.2	40
Zinc	410	B	5.0	20
Lead	3.2		1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9800		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1751			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	44	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-107D (20120618)

Lab Sample ID: 240-12473-2

Date Sampled: 06/18/2012 1755

Client Matrix: Water

Date Received: 06/20/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1305			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	J B	0.67	200
Boron	200	U	34	200
Calcium	40000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1200	J	72	5000
Magnesium	24000	B	34	5000
Manganese	1.5	J B	0.41	15
Sodium	3300	J	590	5000
Nickel	40	U	3.2	40
Zinc	250	B	5.0	20
Lead	2.5	J	1.9	3.0
Lithium	1.9	J	1.8	50
SiO2, Silica	9400		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1757			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	42	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: MW-105 (20120619)

Lab Sample ID: 240-12473-3

Date Sampled: 06/19/2012 1505

Client Matrix: Water

Date Received: 06/20/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1308			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	J B	0.67	200
Boron	40	J	34	200
Calcium	72000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3300	J	72	5000
Magnesium	39000	B	34	5000
Manganese	0.41	J B	0.41	15
Sodium	7600		590	5000
Nickel	40	U	3.2	40
Zinc	7.8	J B	5.0	20
Lead	2.2	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1802			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	89	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

Client Sample ID: DUP-1 (20120619)

Lab Sample ID: 240-12473-4FD

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/20/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1312			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	J B	0.67	200
Boron	39	J	34	200
Calcium	71000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	3200	J	72	5000
Magnesium	38000	B	34	5000
Manganese	15	U	0.41	15
Sodium	7400		590	5000
Nickel	40	U	3.2	40
Zinc	9.5	J B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1808			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	91	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

General Chemistry**Client Sample ID: MW-107S (20120619)**

Lab Sample ID: 240-12473-1

Date Sampled: 06/19/2012 1140

Client Matrix: Water

Date Received: 06/20/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	3.1		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0722						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1559						
Fluoride-Dissolved	0.064	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0722						
Nitrate as N-Dissolved	0.67		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1559						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0722						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1559						
Sulfate-Dissolved	18		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0722						
Bicarbonate Alkalinity as CaCO ₃	230		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1445						
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1445						
Total Phosphorus as PO ₄ -Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-48934	Analysis Date: 06/26/2012 1432						
Prep Batch: 240-48834	Prep Date: 06/26/2012 0820						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-49336	Analysis Date: 06/28/2012 1352						

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

General Chemistry

Client Sample ID: MW-107D (20120618)

Lab Sample ID: 240-12473-2

Date Sampled: 06/18/2012 1755

Client Matrix: Water

Date Received: 06/20/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-49618				Analysis Date: 07/03/2012 0739			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48185				Analysis Date: 06/20/2012 1615			
Fluoride-Dissolved	0.051	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-49618				Analysis Date: 07/03/2012 0739			
Nitrate as N-Dissolved	0.081	J	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48185				Analysis Date: 06/20/2012 1615			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-49618				Analysis Date: 07/03/2012 0739			
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48185				Analysis Date: 06/20/2012 1615			
Sulfate-Dissolved	14		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-49618				Analysis Date: 07/03/2012 0739			
Bicarbonate Alkalinity as CaCO3	180		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661				Analysis Date: 06/22/2012 1454			
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661				Analysis Date: 06/22/2012 1454			
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-48934				Analysis Date: 06/26/2012 1429			
Prep Batch: 240-48834				Prep Date: 06/26/2012 0806			
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49336				Analysis Date: 06/28/2012 1352			

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

General Chemistry**Client Sample ID: MW-105 (20120619)**

Lab Sample ID: 240-12473-3

Date Sampled: 06/19/2012 1505

Client Matrix: Water

Date Received: 06/20/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-49618				Analysis Date: 07/03/2012 0832			
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48185				Analysis Date: 06/20/2012 1704			
Fluoride-Dissolved	0.015	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-49618				Analysis Date: 07/03/2012 0832			
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48185				Analysis Date: 06/20/2012 1704			
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-49618				Analysis Date: 07/03/2012 0832			
Orthophosphate-Dissolved	0.14	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48185				Analysis Date: 06/20/2012 1704			
Sulfate-Dissolved	8.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-49618				Analysis Date: 07/03/2012 0832			
Bicarbonate Alkalinity as CaCO ₃	330		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661				Analysis Date: 06/22/2012 1509			
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661				Analysis Date: 06/22/2012 1509			
Total Phosphorus as PO ₄ -Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-48934				Analysis Date: 06/26/2012 1432			
Prep Batch: 240-48834				Prep Date: 06/26/2012 0822			
Ammonia-Dissolved	0.043	J	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-49336				Analysis Date: 06/28/2012 1358			

Analytical Data

Client: TRW Automotive

Job Number: 240-12473-1

General Chemistry**Client Sample ID: DUP-1 (20120619)**

Lab Sample ID: 240-12473-4FD

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/20/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.2		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0906						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1721						
Fluoride-Dissolved	0.020	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0906						
Nitrate as N-Dissolved	1.7		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1721						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0906						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48185	Analysis Date: 06/20/2012 1721						
Sulfate-Dissolved	8.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-49618	Analysis Date: 07/03/2012 0906						
Bicarbonate Alkalinity as CaCO3	310		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1520						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 1520						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-48934	Analysis Date: 06/26/2012 1432						
Prep Batch: 240-48834	Prep Date: 06/26/2012 0825						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49336	Analysis Date: 06/28/2012 1403						

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-12473-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS VOA					
Analysis Batch:240-49242					
LCS 240-49242/4	Lab Control Sample	T	Water	8260B	
MB 240-49242/5	Method Blank	T	Water	8260B	
240-12473-1	MW-107S (20120619)	T	Water	8260B	
240-12473-2	MW-107D (20120618)	T	Water	8260B	
240-12473-3	MW-105 (20120619)	T	Water	8260B	
240-12473-4FD	DUP-1 (20120619)	T	Water	8260B	
240-12473-5TB	TRIP BLANK	T	Water	8260B	
Analysis Batch:240-49395					
LCS 240-49395/4	Lab Control Sample	T	Water	8260B	
MB 240-49395/5	Method Blank	T	Water	8260B	
240-12473-1	MW-107S (20120619)	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 240-49010					
LCS 240-49010/2-A	Lab Control Sample	R	Water	3005A	
LCS 240-49010/3-A	Lab Control Sample	R	Water	3005A	
MB 240-49010/1-A	Method Blank	R	Water	3005A	
240-12473-1	MW-107S (20120619)	D	Water	3005A	
240-12473-2	MW-107D (20120618)	D	Water	3005A	
240-12473-3	MW-105 (20120619)	D	Water	3005A	
240-12473-4FD	DUP-1 (20120619)	D	Water	3005A	
Analysis Batch:240-49354					
LCS 240-49010/3-A	Lab Control Sample	R	Water	6020	240-49010
MB 240-49010/1-A	Method Blank	R	Water	6020	240-49010
240-12473-1	MW-107S (20120619)	D	Water	6020	240-49010
240-12473-2	MW-107D (20120618)	D	Water	6020	240-49010
240-12473-3	MW-105 (20120619)	D	Water	6020	240-49010
240-12473-4FD	DUP-1 (20120619)	D	Water	6020	240-49010
Analysis Batch:240-49561					
LCS 240-49010/2-A	Lab Control Sample	R	Water	6010B	240-49010
MB 240-49010/1-A	Method Blank	R	Water	6010B	240-49010
240-12473-1	MW-107S (20120619)	D	Water	6010B	240-49010
240-12473-2	MW-107D (20120618)	D	Water	6010B	240-49010
240-12473-3	MW-105 (20120619)	D	Water	6010B	240-49010
240-12473-4FD	DUP-1 (20120619)	D	Water	6010B	240-49010

Report Basis

D = Dissolved

R = Total Recoverable

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:240-48185					
LCS 240-48185/6	Lab Control Sample	T	Water	9056A	
MB 240-48185/5	Method Blank	T	Water	9056A	
240-12473-1	MW-107S (20120619)	D	Water	9056A	
240-12473-2	MW-107D (20120618)	D	Water	9056A	
240-12473-3	MW-105 (20120619)	D	Water	9056A	
240-12473-4FD	DUP-1 (20120619)	D	Water	9056A	
Analysis Batch:240-48661					
LCS 240-48661/18	Lab Control Sample	T	Water	SM 2320B	
MB 240-48661/19	Method Blank	T	Water	SM 2320B	
240-12473-1	MW-107S (20120619)	T	Water	SM 2320B	
240-12473-2	MW-107D (20120618)	T	Water	SM 2320B	
240-12473-3	MW-105 (20120619)	T	Water	SM 2320B	
240-12473-4FD	DUP-1 (20120619)	T	Water	SM 2320B	
Prep Batch: 240-48834					
LCS 240-48834/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-48834/10-A	Method Blank	T	Water	365.2/365.3/365	
240-12473-1	MW-107S (20120619)	D	Water	365.2/365.3/365	
240-12473-2	MW-107D (20120618)	D	Water	365.2/365.3/365	
240-12473-3	MW-105 (20120619)	D	Water	365.2/365.3/365	
240-12473-4FD	DUP-1 (20120619)	D	Water	365.2/365.3/365	
Analysis Batch:240-48934					
LCS 240-48834/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-48834
MB 240-48834/10-A	Method Blank	T	Water	SM 4500 P E	240-48834
240-12473-1	MW-107S (20120619)	D	Water	SM 4500 P E	240-48834
240-12473-2	MW-107D (20120618)	D	Water	SM 4500 P E	240-48834
240-12473-3	MW-105 (20120619)	D	Water	SM 4500 P E	240-48834
240-12473-4FD	DUP-1 (20120619)	D	Water	SM 4500 P E	240-48834
Analysis Batch:240-49336					
LCS 240-49336/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-49336/7	Method Blank	T	Water	SM4500 NH3 -F	
240-12473-1	MW-107S (20120619)	D	Water	SM4500 NH3 -F	
240-12473-2	MW-107D (20120618)	D	Water	SM4500 NH3 -F	
240-12473-3	MW-105 (20120619)	D	Water	SM4500 NH3 -F	
240-12473-4FD	DUP-1 (20120619)	D	Water	SM4500 NH3 -F	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:240-49618					
LCS 240-49618/54	Lab Control Sample	T	Water	9056A	
MB 240-49618/53	Method Blank	T	Water	9056A	
240-12473-1	MW-107S (20120619)	D	Water	9056A	
240-12473-2	MW-107D (20120618)	D	Water	9056A	
240-12473-3	MW-105 (20120619)	D	Water	9056A	
240-12473-3MS	Matrix Spike	D	Water	9056A	
240-12473-4FD	DUP-1 (20120619)	D	Water	9056A	

Report Basis

D = Dissolved

T = Total

Client: TRW Automotive

Job Number: 240-12473-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-12473-1	MW-107S (20120619)	85	104	106	95
240-12473-1	MW-107S (20120619)	92	110	113	101
240-12473-2	MW-107D (20120618)	85	101	104	98
240-12473-3	MW-105 (20120619)	91	111	112	100
240-12473-4	DUP-1 (20120619)	91	104	111	101
240-12473-5	TRIP BLANK	89	105	112	97
MB 240-49242/5		89	101	104	100
MB 240-49395/5		86	101	102	96
LCS 240-49242/4		104	104	98	101
LCS 240-49395/4		97	102	99	100

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-49242

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49242/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/28/2012 1213
Prep Date: 06/28/2012 1213
Leach Date: N/A

Analysis Batch: 240-49242
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC4776.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.412	J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.354	J	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-49242

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49242/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/28/2012 1213
 Prep Date: 06/28/2012 1213
 Leach Date: N/A

Analysis Batch: 240-49242
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC4776.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	66 - 117
Dibromofluoromethane (Surr)	101	75 - 121
1,2-Dichloroethane-d4 (Surr)	104	63 - 129
Toluene-d8 (Surr)	100	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Lab Control Sample - Batch: 240-49242

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49242/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/28/2012 1150
Prep Date: 06/28/2012 1150
Leach Date: N/A

Analysis Batch: 240-49242
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC4775.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.99	100	83 - 112	
Bromobenzene	10.0	8.59	86	76 - 115	
Bromoform	10.0	10.7	107	40 - 131	
Bromomethane	10.0	5.24	52	11 - 185	
Carbon tetrachloride	10.0	8.96	90	66 - 128	
Chlorobenzene	10.0	9.41	94	85 - 110	
Chloroethane	10.0	6.85	69	25 - 153	
Chloroform	10.0	9.71	97	79 - 117	
Chloromethane	10.0	9.78	98	44 - 126	
2-Chlorotoluene	10.0	8.82	88	76 - 116	
4-Chlorotoluene	10.0	9.15	92	77 - 115	
cis-1,2-Dichloroethene	10.0	10.0	100	80 - 113	
cis-1,3-Dichloropropene	10.0	9.41	94	61 - 115	
Dibromomethane	10.0	10.9	109	81 - 120	
1,2-Dichlorobenzene	10.0	8.85	89	81 - 110	
1,3-Dichlorobenzene	10.0	8.58	86	80 - 110	
1,4-Dichlorobenzene	10.0	8.45	85	82 - 110	
Bromodichloromethane	10.0	10.4	104	72 - 121	
Dichlorodifluoromethane	10.0	8.08	81	19 - 129	
1,1-Dichloroethane	10.0	10.4	104	82 - 115	
1,2-Dichloroethane	10.0	9.94	99	71 - 127	
1,1-Dichloroethene	10.0	10.6	106	78 - 131	
1,2-Dichloropropane	10.0	10.3	103	81 - 115	
1,3-Dichloropropane	10.0	10.2	102	79 - 116	
2,2-Dichloropropane	10.0	9.00	90	50 - 129	
1,1-Dichloropropene	10.0	9.62	96	83 - 114	
Ethylbenzene	10.0	9.26	93	83 - 112	
Hexachlorobutadiene	10.0	6.36	64	36 - 134	
Isopropylbenzene	10.0	9.05	91	75 - 114	
p-Isopropyltoluene	10.0	8.98	90	74 - 120	
Methylene Chloride	10.0	11.0	110	66 - 131	
m-Xylene & p-Xylene	20.0	18.9	95	83 - 113	
Naphthalene	10.0	8.79	88	32 - 141	
n-Butylbenzene	10.0	8.80	88	66 - 125	
N-Propylbenzene	10.0	9.08	91	74 - 121	
o-Xylene	10.0	9.30	93	83 - 113	
sec-Butylbenzene	10.0	8.77	88	70 - 117	
Styrene	10.0	10.0	100	79 - 114	
tert-Butylbenzene	10.0	8.46	85	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	10.3	103	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	10.0	100	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Lab Control Sample - Batch: 240-49242

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49242/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/28/2012 1150
 Prep Date: 06/28/2012 1150
 Leach Date: N/A

Analysis Batch: 240-49242
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC4775.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	8.59	86	79 - 114	
Toluene	10.0	9.70	97	84 - 111	
trans-1,2-Dichloroethene	10.0	10.0	100	83 - 117	
trans-1,3-Dichloropropene	10.0	10.5	105	58 - 117	
1,2,3-Trichlorobenzene	10.0	7.87	79	54 - 126	
1,2,4-Trichlorobenzene	10.0	7.09	71	48 - 135	
1,1,1-Trichloroethane	10.0	9.26	93	74 - 118	
1,1,2-Trichloroethane	10.0	10.1	101	80 - 112	
Trichloroethene	10.0	9.52	95	76 - 117	
Trichlorofluoromethane	10.0	9.12	91	49 - 157	
1,2,3-Trichloropropane	10.0	9.63	96	73 - 129	
1,2,4-Trimethylbenzene	10.0	8.96	90	76 - 120	
1,3,5-Trimethylbenzene	10.0	8.63	86	72 - 118	
Vinyl chloride	10.0	8.74	87	53 - 127	
Bromochloromethane	10.0	9.69	97	77 - 120	
1,2-Dibromoethane	10.0	10.3	103	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	104		66 - 117		
Dibromofluoromethane (Surr)	104		75 - 121		
1,2-Dichloroethane-d4 (Surr)	98		63 - 129		
Toluene-d8 (Surr)	101		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-49395

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49395/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1129
Prep Date: 06/29/2012 1129
Leach Date: N/A

Analysis Batch: 240-49395
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC4802.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.408	J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-49395

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49395/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 1129
 Prep Date: 06/29/2012 1129
 Leach Date: N/A

Analysis Batch: 240-49395
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC4802.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	66 - 117
Dibromofluoromethane (Surr)	101	75 - 121
1,2-Dichloroethane-d4 (Surr)	102	63 - 129
Toluene-d8 (Surr)	96	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Lab Control Sample - Batch: 240-49395

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49395/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1107
Prep Date: 06/29/2012 1107
Leach Date: N/A

Analysis Batch: 240-49395
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC4801.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	10.2	102	83 - 112	
Bromobenzene	10.0	9.14	91	76 - 115	
Bromoform	10.0	10.5	105	40 - 131	
Bromomethane	10.0	5.24	52	11 - 185	
Carbon tetrachloride	10.0	9.59	96	66 - 128	
Chlorobenzene	10.0	9.75	98	85 - 110	
Chloroethane	10.0	7.36	74	25 - 153	
Chloroform	10.0	9.94	99	79 - 117	
Chloromethane	10.0	9.89	99	44 - 126	
2-Chlorotoluene	10.0	9.54	95	76 - 116	
4-Chlorotoluene	10.0	9.57	96	77 - 115	
cis-1,2-Dichloroethene	10.0	10.2	102	80 - 113	
cis-1,3-Dichloropropene	10.0	9.33	93	61 - 115	
Dibromomethane	10.0	11.1	111	81 - 120	
1,2-Dichlorobenzene	10.0	9.06	91	81 - 110	
1,3-Dichlorobenzene	10.0	8.80	88	80 - 110	
1,4-Dichlorobenzene	10.0	8.74	87	82 - 110	
Bromodichloromethane	10.0	10.9	109	72 - 121	
Dichlorodifluoromethane	10.0	9.12	91	19 - 129	
1,1-Dichloroethane	10.0	10.7	107	82 - 115	
1,2-Dichloroethane	10.0	9.81	98	71 - 127	
1,1-Dichloroethene	10.0	11.1	111	78 - 131	
1,2-Dichloropropane	10.0	10.2	102	81 - 115	
1,3-Dichloropropane	10.0	10.3	103	79 - 116	
2,2-Dichloropropane	10.0	9.29	93	50 - 129	
1,1-Dichloropropene	10.0	9.93	99	83 - 114	
Ethylbenzene	10.0	9.66	97	83 - 112	
Hexachlorobutadiene	10.0	7.26	73	36 - 134	
Isopropylbenzene	10.0	9.55	96	75 - 114	
p-Isopropyltoluene	10.0	9.67	97	74 - 120	
Methylene Chloride	10.0	10.6	106	66 - 131	
m-Xylene & p-Xylene	20.0	19.3	97	83 - 113	
Naphthalene	10.0	9.11	91	32 - 141	
n-Butylbenzene	10.0	9.56	96	66 - 125	
N-Propylbenzene	10.0	9.45	95	74 - 121	
o-Xylene	10.0	9.58	96	83 - 113	
sec-Butylbenzene	10.0	9.41	94	70 - 117	
Styrene	10.0	9.74	97	79 - 114	
tert-Butylbenzene	10.0	8.95	90	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	10.2	102	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Lab Control Sample - Batch: 240-49395

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49395/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 1107
 Prep Date: 06/29/2012 1107
 Leach Date: N/A

Analysis Batch: 240-49395
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC4801.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	8.75	88	79 - 114	
Toluene	10.0	9.82	98	84 - 111	
trans-1,2-Dichloroethene	10.0	10.3	103	83 - 117	
trans-1,3-Dichloropropene	10.0	11.0	110	58 - 117	
1,2,3-Trichlorobenzene	10.0	8.11	81	54 - 126	
1,2,4-Trichlorobenzene	10.0	7.66	77	48 - 135	
1,1,1-Trichloroethane	10.0	9.94	99	74 - 118	
1,1,2-Trichloroethane	10.0	10.4	104	80 - 112	
Trichloroethene	10.0	9.53	95	76 - 117	
Trichlorofluoromethane	10.0	10.0	100	49 - 157	
1,2,3-Trichloropropane	10.0	9.80	98	73 - 129	
1,2,4-Trimethylbenzene	10.0	9.51	95	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.44	94	72 - 118	
Vinyl chloride	10.0	9.20	92	53 - 127	
Bromochloromethane	10.0	9.90	99	77 - 120	
1,2-Dibromoethane	10.0	10.3	103	79 - 113	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	66 - 117
Dibromofluoromethane (Surr)	102	75 - 121
1,2-Dichloroethane-d4 (Surr)	99	63 - 129
Toluene-d8 (Surr)	100	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-49010

Lab Sample ID: MB 240-49010/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1230
Prep Date: 06/27/2012 0838
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49010
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	0.982	J	0.67	200
Boron	200	U	34	200
Calcium	242	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	57.3	J	34	5000
Manganese	0.609	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	18.3	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-49010

Lab Sample ID: LCS 240-49010/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1241
Prep Date: 06/27/2012 0838
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49010
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2090	104	80 - 120	
Boron	1000	1050	105	80 - 120	
Calcium	50000	51400	103	80 - 120	
Chromium	200	199	99	80 - 120	
Iron	1000	1040	104	80 - 120	
Potassium	50000	51200	102	80 - 120	
Magnesium	50000	50000	100	80 - 120	
Manganese	500	498	100	80 - 120	
Sodium	50000	50900	102	80 - 120	
Nickel	500	484	97	80 - 120	
Zinc	500	495	99	80 - 120	
Lead	500	486	97	80 - 120	
Lithium	1000	972	97	80 - 120	
SiO2, Silica	2140	2260	106	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-49010

Lab Sample ID: MB 240-49010/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/28/2012 1712
 Prep Date: 06/27/2012 0838
 Leach Date: N/A

Analysis Batch: 240-49354
 Prep Batch: 240-49010
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
 Lab File ID: I8062812A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.431	J	0.33	10

Lab Control Sample - Batch: 240-49010

Lab Sample ID: LCS 240-49010/3-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/28/2012 1718
 Prep Date: 06/27/2012 0838
 Leach Date: N/A

Analysis Batch: 240-49354
 Prep Batch: 240-49010
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
 Lab File ID: I8062812A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	858	86	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-48185

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48185/5	Analysis Batch:	240-48185	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0010917-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/20/2012 1433	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-48185

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48185/6	Analysis Batch:	240-48185	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0010917-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/20/2012 1449	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.62	105	90 - 110	
Nitrate as N-Dissolved	2.50	2.48	99	90 - 110	
Orthophosphate-Dissolved	2.50	2.30	92	90 - 110	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-49618

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-49618/53	Analysis Batch:	240-49618	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	53240-0011280-053.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 0503	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-49618

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-49618/54	Analysis Batch:	240-49618	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	54240-0011280-054.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 0520	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	52.3	105	90 - 110	
Fluoride-Dissolved	2.50	2.46	98	90 - 110	
Bromide-Dissolved	10.0	9.68	97	90 - 110	
Sulfate-Dissolved	50.0	49.3	99	90 - 110	

Matrix Spike - Batch: 240-49618

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12473-3	Analysis Batch:	240-49618	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	66240-0011280-066.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 0849	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	8.3		50.0	67.3	118	80 - 120	
Fluoride-Dissolved	0.015	J	2.50	2.71	108	80 - 120	
Bromide-Dissolved	0.50	U	10.0	10.3	103	80 - 120	
Sulfate-Dissolved	8.2		50.0	62.5	109	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-48661

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 240-48661/19
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/22/2012 1216
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48661
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: alk062212.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-48661

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 240-48661/18
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/22/2012 1210
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48661
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: alk062212.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	79.4	82.7	104	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-48834

Lab Sample ID: MB 240-48834/10-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/26/2012 1426
 Prep Date: 06/26/2012 0724
 Leach Date: N/A

Analysis Batch: 240-48934
 Prep Batch: 240-48834
 Leach Batch: N/A
 Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365

Instrument ID: BARNEY
 Lab File ID: TP062612.xls
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as PO4-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-48834

Lab Sample ID: LCS 240-48834/11-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/26/2012 1426
 Prep Date: 06/26/2012 0726
 Leach Date: N/A

Analysis Batch: 240-48934
 Prep Batch: 240-48834
 Leach Batch: N/A
 Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365

Instrument ID: BARNEY
 Lab File ID: TP062612.xls
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as PO4-Dissolved	5.50	6.22	113	53 - 134	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12473-1

Method Blank - Batch: 240-49336

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	MB 240-49336/7	Analysis Batch:	240-49336	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062812B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/28/2012 1313	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.20	U	0.035	0.20

Lab Control Sample - Batch: 240-49336

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	LCS 240-49336/8	Analysis Batch:	240-49336	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062812B.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/28/2012 1327	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	13.9	12.8	92	85 - 114	

THE LEADER IN ENVIRONMENTAL TESTING

☐ Other

COC No: 042442

1 of 1 COCs

07/06/2012

Client Arcadis

Site Name _____

By: Heather Holme
(Signature)Cooler Received on 6/20/12Opened on 6/20/12FedEx: 1st Grd ☒ Exp ☐ UPS ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____TestAmerica Cooler # _____ Foam Box ☐ Client Cooler ☐ Box ☐ Other _____Packing material used: Bubble Wrap ☐ Foam ☐ Plastic Bag ☐ None ☐ Other _____COOLANT: Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 4G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 5G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 8 (CF 0°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

Multiple
on Back

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 ☒ Yes ☐ No
 -Were custody seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No NA
 -Were custody seals on the bottle(s)? ☒ Yes ☐ No
 3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No
 4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No
 5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No
 6. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No
 7. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No
 8. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No
 9. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No
 10. Were sample(s) at the correct pH upon receipt? ☒ Yes ☐ No NA
 11. Were VOAs on the COC? ☒ Yes ☐ No
 12. Were air bubbles >6 mm in any VOA vials? ☒ Yes ☐ No NA
 13. Was a trip blank present in the cooler(s)? ☒ Yes ☐ No

Contacted PM DJP Date 6/20/12 by SM via Verbal ☒ Voice Mail ☐ Other _____
 Concerning #14

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Received 2 x 40 mL Trip Blanks not listed on
the COC.
— will log.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO₃; Sulfuric Acid Lot# 041911-H₂SO₄; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

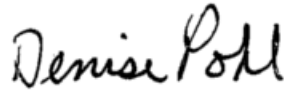
[illegible]

ANALYTICAL REPORT

Job Number: 240-12529-1

Job Description: Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
7/6/2012 12:36 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
07/06/2012

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720
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CASE NARRATIVE

Client: TRW Automotive

Project: Oak Grove Village

Report Number: 240-12529-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/21/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.2 and 1.4 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-103(20120619) (240-12529-1), TB(20120619) (240-12529-2), ER(20120620) (240-12529-3), MW-104(20120620) (240-12529-4), MW-108D(20120620) (240-12529-5) and MW-108S(20120620) (240-12529-6) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/27/2012.

Hexachlorobutadiene was detected in method blank MB 240-49143/4 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

1,2,3-Trichlorobenzene, Dibromomethane and Dichlorodifluoromethane failed the recovery criteria high for LCS 240-49143/5. Refer to the QC report for details.

Dichlorodifluoromethane failed the recovery criteria high for the MS/MSD of sample 240-12479-7 in batch 240-49143.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Sample MW-103(20120619) (240-12529-1)[2.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 8260B: The laboratory control sample (LCS) for batch 49143 exceeded control limits for the following analyte: dichlorodifluoromethane. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The results have been reported and qualified.

Method 8260B: The laboratory control sample (LCS) for batch 49143 exceeded control limits for the following analytes: dibromomethane, and 1,2,3-trichlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-103(20120619) (240-12529-1), ER(20120620) (240-12529-3), MW-104(20120620) (240-12529-4), MW-108D(20120620) (240-12529-5) and MW-108S(20120620) (240-12529-6) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/27/2012 and 06/28/2012 and analyzed on 06/29/2012.

Several analytes were detected in method blank MB 240-49010/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Li and Manganese were detected in method blank MB 240-49161/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MW-103(20120619) (240-12529-1), ER(20120620) (240-12529-3), MW-104(20120620) (240-12529-4), MW-108D(20120620) (240-12529-5) and MW-108S(20120620) (240-12529-6) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/27/2012 and 06/28/2012 and analyzed on 06/28/2012 and 06/29/2012.

Strontium was detected in method blank MB 240-49010/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

ALKALINITY

Samples MW-103(20120619) (240-12529-1), ER(20120620) (240-12529-3), MW-104(20120620) (240-12529-4), MW-108D(20120620) (240-12529-5) and MW-108S(20120620) (240-12529-6) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/22/2012 and 06/25/2012.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Samples MW-103(20120619) (240-12529-1), ER(20120620) (240-12529-3), MW-104(20120620) (240-12529-4), MW-108D(20120620) (240-12529-5) and MW-108S(20120620) (240-12529-6) were analyzed for dissolved ammonia in accordance with SM 4500 NH3 F. The samples were analyzed on 06/29/2012.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED PHOSPHORUS

Samples MW-103(20120619) (240-12529-1), ER(20120620) (240-12529-3), MW-104(20120620) (240-12529-4), MW-108D(20120620) (240-12529-5) and MW-108S(20120620) (240-12529-6) were analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 06/29/2012.

No difficulties were encountered during the phosphorus analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-103(20120619) (240-12529-1), ER(20120620) (240-12529-3), MW-104(20120620) (240-12529-4), MW-108D(20120620) (240-12529-5) and MW-108S(20120620) (240-12529-6) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/21/2012 and 06/22/2012.

Orthophosphate failed the recovery criteria high for the MS of sample MW-108D(20120620)MS (240-12529-5) in batch 240-48454.

Orthophosphate was detected in method blank MB 240-48326/28 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Orthophosphate failed the recovery criteria low for LCS 240-48326/6.

Refer to the QC report for details.

Method 9056A: Reanalysis of the following samples was performed outside of the analytical holding time due to failing QC for orthophosphate: ER(20120620), MW-103(20120619). Both sets of data are reported.

No other difficulties were encountered during the anions analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-103(20120619) (240-12529-1), ER(20120620) (240-12529-3), MW-104(20120620) (240-12529-4), MW-108D(20120620) (240-12529-5) and MW-108S(20120620) (240-12529-6) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/21/2012.

Fluoride failed the recovery criteria high for the MS of sample MW-108D(20120620)MS (240-12529-5) in batch 240-48325.

Refer to the QC report for details.

No other difficulties were encountered during the anions analyses.

All other quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12529-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12529-1	MW-103(20120619)					
Dichlorodifluoromethane		10	*	1.0	ug/L	8260B
1,1-Dichloroethane		1.2		1.0	ug/L	8260B
1,1-Dichloroethene		0.54	J	1.0	ug/L	8260B
Dichlorofluoromethane		130		5.0	ug/L	8260B
Tetrachloroethene		1.2		1.0	ug/L	8260B
1,1,1-Trichloroethane		0.83	J	1.0	ug/L	8260B
Trichloroethene		0.69	J	1.0	ug/L	8260B
Trichlorofluoromethane		130		2.5	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		190		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		77	J B	200	ug/L	6010B
Calcium		46000	B	5000	ug/L	6010B
Potassium		880	J	5000	ug/L	6010B
Magnesium		24000	B	5000	ug/L	6010B
Manganese		0.85	J B	15	ug/L	6010B
Sodium		5000		5000	ug/L	6010B
Zinc		6.4	J B	20	ug/L	6010B
SiO2, Silica		11000		1100	ug/L	6010B
Strontium		41	B	10	ug/L	6020
Chloride-Dissolved		13		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.8		0.10	mg/L	9056A
Fluoride-Dissolved		0.078	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.18	J H	0.50	mg/L	9056A
Bromide-Dissolved		0.18	J	0.50	mg/L	9056A
Sulfate-Dissolved		0.82	J	1.0	mg/L	9056A
240-12529-2	TB(20120619)					
Methylene Chloride		0.64	J	1.0	ug/L	8260B
240-12529-3	ER(20120620)					
Chloroform		0.30	J	1.0	ug/L	8260B
Toluene		0.47	J	1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		2.9	J	5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		3.0	J B	200	ug/L	6010B
Calcium		1000	J B	5000	ug/L	6010B
Magnesium		65	J B	5000	ug/L	6010B
Zinc		5.2	J B	20	ug/L	6010B
Lithium		2.0	J	50	ug/L	6010B
Nitrite as N-Dissolved		0.022	J	0.10	mg/L	9056A
Chloride-Dissolved		0.73	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.16	J H	0.50	mg/L	9056A

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12529-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12529-4	MW-104(20120620)					
Chloroform		0.19	J	1.0	ug/L	8260B
Dichlorodifluoromethane		4.8	*	1.0	ug/L	8260B
1,1-Dichloroethane		0.78	J	1.0	ug/L	8260B
Dichlorofluoromethane		71		2.0	ug/L	8260B
Tetrachloroethene		0.42	J	1.0	ug/L	8260B
Trichloroethene		3.1		1.0	ug/L	8260B
Trichlorofluoromethane		39		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		350		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		92	J B	200	ug/L	6010B
Calcium		80000	B	5000	ug/L	6010B
Potassium		2100	J	5000	ug/L	6010B
Magnesium		42000	B	5000	ug/L	6010B
Manganese		1.1	J B	15	ug/L	6010B
Sodium		8800		5000	ug/L	6010B
Zinc		52	B	20	ug/L	6010B
Lead		3.2		3.0	ug/L	6010B
Lithium		2.0	J	50	ug/L	6010B
SiO2, Silica		13000		1100	ug/L	6010B
Strontium		60	B	10	ug/L	6020
Chloride-Dissolved		24		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.89		0.10	mg/L	9056A
Fluoride-Dissolved		0.035	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.19	J	0.50	mg/L	9056A
Sulfate-Dissolved		6.2		1.0	mg/L	9056A

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12529-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12529-5	MW-108D(20120620)					
Dichlorodifluoromethane		3.7	*	1.0	ug/L	8260B
1,1-Dichloroethane		1.1		1.0	ug/L	8260B
Dichlorofluoromethane		58		2.0	ug/L	8260B
Tetrachloroethene		0.63	J	1.0	ug/L	8260B
Trichloroethene		2.5		1.0	ug/L	8260B
Trichlorofluoromethane		32		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		220		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		180	J	200	ug/L	6010B
Calcium		50000		5000	ug/L	6010B
Potassium		1300	J	5000	ug/L	6010B
Magnesium		29000		5000	ug/L	6010B
Sodium		4300	J	5000	ug/L	6010B
Zinc		16	J	20	ug/L	6010B
Lithium		2.7	J B	50	ug/L	6010B
SiO2, Silica		11000		1100	ug/L	6010B
Strontium		51		10	ug/L	6020
Chloride-Dissolved		5.3		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.37		0.10	mg/L	9056A
Fluoride-Dissolved		0.053	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.11	J	0.50	mg/L	9056A
Sulfate-Dissolved		13		1.0	mg/L	9056A

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12529-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12529-6	MW-108S(20120620)					
cis-1,2-Dichloroethene		0.45	J	1.0	ug/L	8260B
Dichlorodifluoromethane		2.6	*	1.0	ug/L	8260B
1,1-Dichloroethane		1.2		1.0	ug/L	8260B
Dichlorofluoromethane		59		2.0	ug/L	8260B
Tetrachloroethene		0.64	J	1.0	ug/L	8260B
Trichloroethene		1.7		1.0	ug/L	8260B
Trichlorofluoromethane		12		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		340		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		190	J	200	ug/L	6010B
Calcium		73000		5000	ug/L	6010B
Potassium		2300	J	5000	ug/L	6010B
Magnesium		37000		5000	ug/L	6010B
Manganese		76	B	15	ug/L	6010B
Sodium		7200		5000	ug/L	6010B
Nickel		5.6	J	40	ug/L	6010B
Zinc		87		20	ug/L	6010B
SiO2, Silica		13000		1100	ug/L	6010B
Strontium		100		10	ug/L	6020
Chloride-Dissolved		10		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.29		0.10	mg/L	9056A
Fluoride-Dissolved		0.033	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.20	J	0.50	mg/L	9056A
Sulfate-Dissolved		12		1.0	mg/L	9056A

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-12529-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC/MS)		TAL NC	SW846 8260B	
Purge and Trap		TAL NC		SW846 5030B
Metals (ICP)		TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Metals (ICP/MS)		TAL NC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Sample Filtration, Field				FIELD_FLTRD
Alkalinity		TAL NC	SM SM 2320B	
Phosphorus		TAL NC	SM SM 4500 P E	
Phosphorus, Total		TAL NC		MCAWW 365.2/365.3/365
Sample Filtration, Field				FIELD_FLTRD
Ammonia		TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration, Field				FIELD_FLTRD

Lab References:

TAL NC = TestAmerica Canton

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-12529-1

Method	Analyst	Analyst ID
SW846 8260B	Lavey, Tim	TL
SW846 6010B	Musselman, Natalie J	NJM
SW846 6020	Counts, Karen	KC
SW846 6020	Davies, Brian	BD
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Burns, Jill	JB
SM SM 2320B	Colon, Olguita	OC
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Kuhle, Julie	JK

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-12529-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-12529-1	MW-103(20120619)	Water	06/19/2012 1740	06/21/2012 0900
240-12529-2	TB(20120619)	Water	06/19/2012 0000	06/21/2012 0900
240-12529-3	ER(20120620)	Water	06/20/2012 0830	06/21/2012 0900
240-12529-4	MW-104(20120620)	Water	06/20/2012 1110	06/21/2012 0900
240-12529-5	MW-108D(20120620)	Water	06/20/2012 1455	06/21/2012 0900
240-12529-6	MW-108S(20120620)	Water	06/20/2012 1635	06/21/2012 0900

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124707.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2212

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2212

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U *	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	10	*	0.31	1.0
1,1-Dichloroethane	1.2		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	0.54	J	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.2		0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49143	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX124707.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/27/2012 2212			Final Weight/Volume:	5 mL
Prep Date:	06/27/2012 2212				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.83	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.69	J	0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		66 - 117
Dibromofluoromethane (Surr)	114		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	106		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49143	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX124700.D
Dilution:	2.5			Initial Weight/Volume:	5 mL
Analysis Date:	06/27/2012 1924			Final Weight/Volume:	5 mL
Prep Date:	06/27/2012 1924				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	130		1.1	5.0
Trichlorofluoromethane	130		0.53	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	116		75 - 121
1,2-Dichloroethane-d4 (Surr)	106		63 - 129
Toluene-d8 (Surr)	105		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: TB(20120619)

Lab Sample ID: 240-12529-2

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124701.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 1948

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 1948

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U *	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U *	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	0.64	J	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: TB(20120619)

Lab Sample ID: 240-12529-2

Date Sampled: 06/19/2012 0000

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124701.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 1948

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 1948

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	121		75 - 121
1,2-Dichloroethane-d4 (Surr)	108		63 - 129
Toluene-d8 (Surr)	106		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: ER(20120620)

Lab Sample ID: 240-12529-3

Date Sampled: 06/20/2012 0830

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124702.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2013

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2013

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.30	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U *	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U *	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.47	J	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: ER(20120620)

Lab Sample ID: 240-12529-3

Date Sampled: 06/20/2012 0830

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124702.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2013

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2013

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	119		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	105		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-104(20120620)

Lab Sample ID: 240-12529-4

Date Sampled: 06/20/2012 1110

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124703.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2037

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2037

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	0.19	J	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U *	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	4.8	*	0.31	1.0
1,1-Dichloroethane	0.78	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	71		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.42	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-104(20120620)

Lab Sample ID: 240-12529-4

Date Sampled: 06/20/2012 1110

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124703.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2037

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2037

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	3.1		0.17	1.0
Trichlorofluoromethane	39		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	113		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	108		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108D(20120620)

Lab Sample ID: 240-12529-5

Date Sampled: 06/20/2012 1455

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124704.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2101

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2101

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U *	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.7	*	0.31	1.0
1,1-Dichloroethane	1.1		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	58		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.63	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108D(20120620)

Lab Sample ID: 240-12529-5

Date Sampled: 06/20/2012 1455

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49143	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX124704.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/27/2012 2101			Final Weight/Volume:	5 mL
Prep Date:	06/27/2012 2101				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.5		0.17	1.0
Trichlorofluoromethane	32		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	115		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	107		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108S(20120620)

Lab Sample ID: 240-12529-6

Date Sampled: 06/20/2012 1635

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124705.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2126

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2126

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.45	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U *	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.6	*	0.31	1.0
1,1-Dichloroethane	1.2		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	59		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.64	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108S(20120620)

Lab Sample ID: 240-12529-6

Date Sampled: 06/20/2012 1635

Client Matrix: Water

Date Received: 06/21/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49143

Instrument ID: A3UX12

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UX124705.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/27/2012 2126

Final Weight/Volume: 5 mL

Prep Date: 06/27/2012 2126

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U *	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.7		0.17	1.0
Trichlorofluoromethane	12		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	112		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	106		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1351			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	77	J B	0.67	200
Boron	200	U	34	200
Calcium	46000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	880	J	72	5000
Magnesium	24000	B	34	5000
Manganese	0.85	J B	0.41	15
Sodium	5000		590	5000
Nickel	40	U	3.2	40
Zinc	6.4	J B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1906			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	41	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: ER(20120620)

Lab Sample ID: 240-12529-3

Date Sampled: 06/20/2012 0830

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1354			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	3.0	J B	0.67	200
Boron	200	U	34	200
Calcium	1000	J B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	65	J B	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	5.2	J B	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	2.0	J	1.8	50
SiO2, Silica	1100	U	14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1912			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	10	U	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-104(20120620)

Lab Sample ID: 240-12529-4

Date Sampled: 06/20/2012 1110

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1358			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	92	J B	0.67	200
Boron	200	U	34	200
Calcium	80000	B	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2100	J	72	5000
Magnesium	42000	B	34	5000
Manganese	1.1	J B	0.41	15
Sodium	8800		590	5000
Nickel	40	U	3.2	40
Zinc	52	B	5.0	20
Lead	3.2		1.9	3.0
Lithium	2.0	J	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49354	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49010	Lab File ID:	I8062812A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/28/2012 1918			Final Weight/Volume:	50 mL
Prep Date:	06/27/2012 0838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	60	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108D(20120620)

Lab Sample ID: 240-12529-5

Date Sampled: 06/20/2012 1455

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1657			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180	J	0.67	200
Boron	200	U	34	200
Calcium	50000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1300	J	72	5000
Magnesium	29000		34	5000
Manganese	15	U	0.41	15
Sodium	4300	J	590	5000
Nickel	40	U	3.2	40
Zinc	16	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	2.7	J B	1.8	50
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1456			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	51		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

Client Sample ID: MW-108S(20120620)

Lab Sample ID: 240-12529-6

Date Sampled: 06/20/2012 1635

Client Matrix: Water

Date Received: 06/21/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1701			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	190	J	0.67	200
Boron	200	U	34	200
Calcium	73000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2300	J	72	5000
Magnesium	37000		34	5000
Manganese	76	B	0.41	15
Sodium	7200		590	5000
Nickel	5.6	J	3.2	40
Zinc	87		5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	13000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1501			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	100		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry

Client Sample ID: MW-103(20120619)

Lab Sample ID: 240-12529-1

Date Sampled: 06/19/2012 1740

Client Matrix: Water

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	13		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1626						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1626						
Fluoride-Dissolved	0.078	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1626						
Nitrate as N-Dissolved	1.8		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1626						
Bromide-Dissolved	0.18	J	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1626						
Orthophosphate-Dissolved	0.20	J ^ *	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1626						
Orthophosphate-Dissolved	0.18	J H	mg/L	0.044	0.50	1.0	9056A
Run Type: RA Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1222						
Sulfate-Dissolved	0.82	J	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1626						
Bicarbonate Alkalinity as CaCO3	190		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 2114						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48661	Analysis Date: 06/22/2012 2114						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0749						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0912						

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry

Client Sample ID: ER(20120620)

Lab Sample ID: 240-12529-3

Client Matrix: Water

Date Sampled: 06/20/2012 0830

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	0.73	J	mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1642						
Nitrite as N-Dissolved	0.022	J	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1642						
Fluoride-Dissolved	1.0	U	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1642						
Nitrate as N-Dissolved	0.10	U	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1642						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1642						
Orthophosphate-Dissolved	0.18	J ^ *	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1642						
Orthophosphate-Dissolved	0.16	J H	mg/L	0.044	0.50	1.0	9056A
Run Type: RA Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1239						
Sulfate-Dissolved	1.0	U	mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1642						
Bicarbonate Alkalinity as CaCO3	2.9	J	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1537						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1537						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0750						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0929						

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry**Client Sample ID: MW-104(20120620)**

Lab Sample ID: 240-12529-4

Date Sampled: 06/20/2012 1110

Client Matrix: Water

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	24		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1659						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1659						
Fluoride-Dissolved	0.035	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1659						
Nitrate as N-Dissolved	0.89		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1659						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1659						
Orthophosphate-Dissolved	0.19	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1055						
Sulfate-Dissolved	6.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1659						
Bicarbonate Alkalinity as CaCO ₃	350		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1550						
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1550						
Total Phosphorus as PO ₄ -Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0750						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0929						

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry

Client Sample ID: MW-108D(20120620)

Lab Sample ID: 240-12529-5

Date Sampled: 06/20/2012 1455

Client Matrix: Water

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1821						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1821						
Fluoride-Dissolved	0.053	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1821						
Nitrate as N-Dissolved	0.37		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1821						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1821						
Orthophosphate-Dissolved	0.11	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1112						
Sulfate-Dissolved	13		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1821						
Bicarbonate Alkalinity as CaCO3	220		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1600						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1600						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0751						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0929						

Analytical Data

Client: TRW Automotive

Job Number: 240-12529-1

General Chemistry**Client Sample ID: MW-108S(20120620)**

Lab Sample ID: 240-12529-6

Date Sampled: 06/20/2012 1635

Client Matrix: Water

Date Received: 06/21/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	10		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1910						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1910						
Fluoride-Dissolved	0.033	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1910						
Nitrate as N-Dissolved	0.29		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48326	Analysis Date: 06/21/2012 1910						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1910						
Orthophosphate-Dissolved	0.20	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1204						
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48325	Analysis Date: 06/21/2012 1910						
Bicarbonate Alkalinity as CaCO3	340		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1612						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-48854	Analysis Date: 06/25/2012 1612						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1427						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0751						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 0930						

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-12529-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report			Prep Batch
		Basis	Client Matrix	Method	
GC/MS VOA					
Analysis Batch:240-49143					
LCS 240-49143/5	Lab Control Sample	T	Water	8260B	
MB 240-49143/4	Method Blank	T	Water	8260B	
240-12529-1	MW-103(20120619)	T	Water	8260B	
240-12529-2	TB(20120619)	T	Water	8260B	
240-12529-3	ER(20120620)	T	Water	8260B	
240-12529-4	MW-104(20120620)	T	Water	8260B	
240-12529-5	MW-108D(20120620)	T	Water	8260B	
240-12529-6	MW-108S(20120620)	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-49010					
LCS 240-49010/2-A	Lab Control Sample	R	Water	3005A	
LCS 240-49010/3-A	Lab Control Sample	R	Water	3005A	
MB 240-49010/1-A	Method Blank	R	Water	3005A	
240-12529-1	MW-103(20120619)	D	Water	3005A	
240-12529-3	ER(20120620)	D	Water	3005A	
240-12529-4	MW-104(20120620)	D	Water	3005A	
Prep Batch: 240-49161					
LCS 240-49161/2-A	Lab Control Sample	R	Water	3005A	
LCS 240-49161/3-A	Lab Control Sample	R	Water	3005A	
MB 240-49161/1-A	Method Blank	R	Water	3005A	
240-12529-5	MW-108D(20120620)	D	Water	3005A	
240-12529-6	MW-108S(20120620)	D	Water	3005A	
Analysis Batch:240-49354					
LCS 240-49010/3-A	Lab Control Sample	R	Water	6020	240-49010
MB 240-49010/1-A	Method Blank	R	Water	6020	240-49010
240-12529-1	MW-103(20120619)	D	Water	6020	240-49010
240-12529-3	ER(20120620)	D	Water	6020	240-49010
240-12529-4	MW-104(20120620)	D	Water	6020	240-49010
Analysis Batch:240-49560					
LCS 240-49161/3-A	Lab Control Sample	R	Water	6020	240-49161
MB 240-49161/1-A	Method Blank	R	Water	6020	240-49161
240-12529-5	MW-108D(20120620)	D	Water	6020	240-49161
240-12529-6	MW-108S(20120620)	D	Water	6020	240-49161
Analysis Batch:240-49561					
LCS 240-49010/2-A	Lab Control Sample	R	Water	6010B	240-49010
MB 240-49010/1-A	Method Blank	R	Water	6010B	240-49010
LCS 240-49161/2-A	Lab Control Sample	R	Water	6010B	240-49161
MB 240-49161/1-A	Method Blank	R	Water	6010B	240-49161
240-12529-1	MW-103(20120619)	D	Water	6010B	240-49010
240-12529-3	ER(20120620)	D	Water	6010B	240-49010
240-12529-4	MW-104(20120620)	D	Water	6010B	240-49010
240-12529-5	MW-108D(20120620)	D	Water	6010B	240-49161
240-12529-6	MW-108S(20120620)	D	Water	6010B	240-49161

Report Basis

D = Dissolved

R = Total Recoverable

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:240-48325					
LCS 240-48325/29	Lab Control Sample	T	Water	9056A	
LCS 240-48325/6	Lab Control Sample	T	Water	9056A	
MB 240-48325/28	Method Blank	T	Water	9056A	
MB 240-48325/5	Method Blank	T	Water	9056A	
240-12529-1	MW-103(20120619)	D	Water	9056A	
240-12529-3	ER(20120620)	D	Water	9056A	
240-12529-4	MW-104(20120620)	D	Water	9056A	
240-12529-5	MW-108D(20120620)	D	Water	9056A	
240-12529-5MS	Matrix Spike	D	Water	9056A	
240-12529-6	MW-108S(20120620)	D	Water	9056A	
Analysis Batch:240-48326					
LCS 240-48326/29	Lab Control Sample	T	Water	9056A	
LCS 240-48326/6	Lab Control Sample	T	Water	9056A	
MB 240-48326/28	Method Blank	T	Water	9056A	
MB 240-48326/5	Method Blank	T	Water	9056A	
240-12529-1	MW-103(20120619)	D	Water	9056A	
240-12529-3	ER(20120620)	D	Water	9056A	
240-12529-4	MW-104(20120620)	D	Water	9056A	
240-12529-5	MW-108D(20120620)	D	Water	9056A	
240-12529-5MS	Matrix Spike	D	Water	9056A	
240-12529-6	MW-108S(20120620)	D	Water	9056A	
Analysis Batch:240-48454					
LCS 240-48454/6	Lab Control Sample	T	Water	9056A	
MB 240-48454/5	Method Blank	T	Water	9056A	
240-12529-1RA	MW-103(20120619)	D	Water	9056A	
240-12529-3RA	ER(20120620)	D	Water	9056A	
240-12529-4	MW-104(20120620)	D	Water	9056A	
240-12529-5	MW-108D(20120620)	D	Water	9056A	
240-12529-5MS	Matrix Spike	D	Water	9056A	
240-12529-6	MW-108S(20120620)	D	Water	9056A	
Analysis Batch:240-48661					
LCS 240-48661/47	Lab Control Sample	T	Water	SM 2320B	
MB 240-48661/48	Method Blank	T	Water	SM 2320B	
240-12529-1	MW-103(20120619)	T	Water	SM 2320B	
240-12529-1DU	Duplicate	T	Water	SM 2320B	

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-48854					
LCS 240-48854/4	Lab Control Sample	T	Water	SM 2320B	
MB 240-48854/5	Method Blank	T	Water	SM 2320B	
240-12529-3	ER(20120620)	T	Water	SM 2320B	
240-12529-4	MW-104(20120620)	T	Water	SM 2320B	
240-12529-5	MW-108D(20120620)	T	Water	SM 2320B	
240-12529-6	MW-108S(20120620)	T	Water	SM 2320B	
Prep Batch: 240-49375					
LCS 240-49375/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-49375/10-A	Method Blank	T	Water	365.2/365.3/365	
240-12529-1	MW-103(20120619)	D	Water	365.2/365.3/365	
240-12529-3	ER(20120620)	D	Water	365.2/365.3/365	
240-12529-4	MW-104(20120620)	D	Water	365.2/365.3/365	
240-12529-5	MW-108D(20120620)	D	Water	365.2/365.3/365	
240-12529-6	MW-108S(20120620)	D	Water	365.2/365.3/365	
Analysis Batch:240-49449					
LCS 240-49449/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-49449/7	Method Blank	T	Water	SM4500 NH3 -F	
240-12529-1	MW-103(20120619)	D	Water	SM4500 NH3 -F	
240-12529-3	ER(20120620)	D	Water	SM4500 NH3 -F	
240-12529-4	MW-104(20120620)	D	Water	SM4500 NH3 -F	
240-12529-5	MW-108D(20120620)	D	Water	SM4500 NH3 -F	
240-12529-6	MW-108S(20120620)	D	Water	SM4500 NH3 -F	
Analysis Batch:240-49474					
LCS 240-49375/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-49375
MB 240-49375/10-A	Method Blank	T	Water	SM 4500 P E	240-49375
240-12529-1	MW-103(20120619)	D	Water	SM 4500 P E	240-49375
240-12529-3	ER(20120620)	D	Water	SM 4500 P E	240-49375
240-12529-4	MW-104(20120620)	D	Water	SM 4500 P E	240-49375
240-12529-5	MW-108D(20120620)	D	Water	SM 4500 P E	240-49375
240-12529-6	MW-108S(20120620)	D	Water	SM 4500 P E	240-49375

Report Basis

D = Dissolved

T = Total

Client: TRW Automotive

Job Number: 240-12529-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-12529-1	MW-103(20120619)	94	116	106	105
240-12529-1	MW-103(20120619)	91	114	105	106
240-12529-2	TB(20120619)	94	121	108	106
240-12529-3	ER(20120620)	92	119	105	105
240-12529-4	MW-104(20120620)	94	113	104	108
240-12529-5	MW-108D(20120620)	95	115	105	107
240-12529-6	MW-108S(20120620)	95	112	104	106
MB 240-49143/4		92	117	104	107
LCS 240-49143/5		94	118	111	109

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-49143

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49143/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/27/2012 1902
Prep Date: 06/27/2012 1902
Leach Date: N/A

Analysis Batch: 240-49143
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX12
Lab File ID: UX124699.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.990	J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-49143

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49143/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/27/2012 1902
 Prep Date: 06/27/2012 1902
 Leach Date: N/A

Analysis Batch: 240-49143
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX12
 Lab File ID: UX124699.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	66 - 117
Dibromofluoromethane (Surr)	117	75 - 121
1,2-Dichloroethane-d4 (Surr)	104	63 - 129
Toluene-d8 (Surr)	107	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Lab Control Sample - Batch: 240-49143

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49143/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/27/2012 1813
Prep Date: 06/27/2012 1813
Leach Date: N/A

Analysis Batch: 240-49143
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX12
Lab File ID: UX124697.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	18.7	94	83 - 112	
Bromobenzene	20.0	17.9	90	76 - 115	
Bromoform	20.0	18.3	92	40 - 131	
Bromomethane	20.0	20.7	104	11 - 185	
Carbon tetrachloride	20.0	23.9	120	66 - 128	
Chlorobenzene	20.0	19.9	100	85 - 110	
Chloroethane	20.0	18.3	92	25 - 153	
Chloroform	20.0	19.1	96	79 - 117	
Chloromethane	20.0	21.5	108	44 - 126	
2-Chlorotoluene	20.0	16.9	85	76 - 116	
4-Chlorotoluene	20.0	16.9	85	77 - 115	
cis-1,2-Dichloroethene	20.0	18.0	90	80 - 113	
cis-1,3-Dichloropropene	20.0	16.2	81	61 - 115	
Dibromomethane	20.0	25.8	129	81 - 120	*
1,2-Dichlorobenzene	20.0	19.4	97	81 - 110	
1,3-Dichlorobenzene	20.0	18.3	92	80 - 110	
1,4-Dichlorobenzene	20.0	17.9	90	82 - 110	
Bromodichloromethane	20.0	19.6	98	72 - 121	
Dichlorodifluoromethane	20.0	31.7	159	19 - 129	*
1,1-Dichloroethane	20.0	18.8	94	82 - 115	
1,2-Dichloroethane	20.0	19.6	98	71 - 127	
1,1-Dichloroethene	20.0	20.4	102	78 - 131	
1,2-Dichloropropane	20.0	18.3	92	81 - 115	
1,3-Dichloropropane	20.0	19.9	100	79 - 116	
2,2-Dichloropropane	20.0	17.6	88	50 - 129	
1,1-Dichloropropene	20.0	19.2	96	83 - 114	
Ethylbenzene	20.0	20.3	102	83 - 112	
Hexachlorobutadiene	20.0	21.3	107	36 - 134	
Isopropylbenzene	20.0	18.8	94	75 - 114	
p-Isopropyltoluene	20.0	17.7	89	74 - 120	
Methylene Chloride	20.0	19.4	97	66 - 131	
m-Xylene & p-Xylene	40.0	38.2	96	83 - 113	
Naphthalene	20.0	21.8	109	32 - 141	
n-Butylbenzene	20.0	16.1	81	66 - 125	
N-Propylbenzene	20.0	16.7	84	74 - 121	
o-Xylene	20.0	19.2	96	83 - 113	
sec-Butylbenzene	20.0	16.4	82	70 - 117	
Styrene	20.0	18.6	93	79 - 114	
tert-Butylbenzene	20.0	16.7	84	71 - 115	
1,1,1,2-Tetrachloroethane	20.0	19.0	95	72 - 116	
1,1,2,2-Tetrachloroethane	20.0	15.8	79	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Lab Control Sample - Batch: 240-49143

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49143/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/27/2012 1813
 Prep Date: 06/27/2012 1813
 Leach Date: N/A

Analysis Batch: 240-49143
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX12
 Lab File ID: UX124697.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	20.0	22.0	110	79 - 114	
Toluene	20.0	19.5	98	84 - 111	
trans-1,2-Dichloroethene	20.0	17.7	89	83 - 117	
trans-1,3-Dichloropropene	20.0	15.4	77	58 - 117	
1,2,3-Trichlorobenzene	20.0	27.3	137	54 - 126	*
1,2,4-Trichlorobenzene	20.0	21.6	108	48 - 135	
1,1,1-Trichloroethane	20.0	21.0	105	74 - 118	
1,1,2-Trichloroethane	20.0	20.4	102	80 - 112	
Trichloroethene	20.0	21.2	106	76 - 117	
Trichlorofluoromethane	20.0	24.8	124	49 - 157	
1,2,3-Trichloropropane	20.0	19.1	96	73 - 129	
1,2,4-Trimethylbenzene	20.0	15.9	80	76 - 120	
1,3,5-Trimethylbenzene	20.0	15.4	77	72 - 118	
Vinyl chloride	20.0	19.1	96	53 - 127	
Bromochloromethane	20.0	16.3	82	77 - 120	
1,2-Dibromoethane	20.0	19.8	99	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	94		66 - 117		
Dibromofluoromethane (Surr)	118		75 - 121		
1,2-Dichloroethane-d4 (Surr)	111		63 - 129		
Toluene-d8 (Surr)	109		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-49010

Lab Sample ID: MB 240-49010/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1230
Prep Date: 06/27/2012 0838
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49010
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	0.982	J	0.67	200
Boron	200	U	34	200
Calcium	242	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	57.3	J	34	5000
Manganese	0.609	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	18.3	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-49010

Lab Sample ID: LCS 240-49010/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1241
Prep Date: 06/27/2012 0838
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49010
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2090	104	80 - 120	
Boron	1000	1050	105	80 - 120	
Calcium	50000	51400	103	80 - 120	
Chromium	200	199	99	80 - 120	
Iron	1000	1040	104	80 - 120	
Potassium	50000	51200	102	80 - 120	
Magnesium	50000	50000	100	80 - 120	
Manganese	500	498	100	80 - 120	
Sodium	50000	50900	102	80 - 120	
Nickel	500	484	97	80 - 120	
Zinc	500	495	99	80 - 120	
Lead	500	486	97	80 - 120	
Lithium	1000	972	97	80 - 120	
SiO2, Silica	2140	2260	106	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-49161

Lab Sample ID: MB 240-49161/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1634
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	200	U	0.67	200
Boron	200	U	34	200
Calcium	5000	U	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	5000	U	34	5000
Manganese	0.515	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	4.53	J	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-49161

Lab Sample ID: LCS 240-49161/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1638
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2260	113	80 - 120	
Boron	1000	1130	113	80 - 120	
Calcium	50000	52100	104	80 - 120	
Chromium	200	207	104	80 - 120	
Iron	1000	1070	107	80 - 120	
Potassium	50000	52700	105	80 - 120	
Magnesium	50000	50000	100	80 - 120	
Manganese	500	529	106	80 - 120	
Sodium	50000	53700	107	80 - 120	
Nickel	500	512	102	80 - 120	
Zinc	500	518	104	80 - 120	
Lead	500	512	102	80 - 120	
Lithium	1000	1050	105	80 - 120	
SiO2, Silica	2140	2430	114	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-49010

Lab Sample ID: MB 240-49010/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/28/2012 1712
Prep Date: 06/27/2012 0838
Leach Date: N/A

Analysis Batch: 240-49354
Prep Batch: 240-49010
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
Lab File ID: I8062812A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.431	J	0.33	10

Lab Control Sample - Batch: 240-49010

Lab Sample ID: LCS 240-49010/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/28/2012 1718
Prep Date: 06/27/2012 0838
Leach Date: N/A

Analysis Batch: 240-49354
Prep Batch: 240-49010
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
Lab File ID: I8062812A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	858	86	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-49161

Lab Sample ID: MB 240-49161/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1404
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49560
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
Lab File ID: I8062912A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	10	U	0.33	10

Lab Control Sample - Batch: 240-49161

Lab Sample ID: LCS 240-49161/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1422
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49560
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
Lab File ID: I8062912A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	925	92	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-48325

Method: 9056A
Preparation: N/A

Lab Sample ID: MB 240-48325/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/21/2012 1100
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48325
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: SIMON
Lab File ID: 5240-0010952-005.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Method Blank - Batch: 240-48325

Method: 9056A
Preparation: N/A

Lab Sample ID: MB 240-48325/28
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/21/2012 1748
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48325
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: SIMON
Lab File ID: 28240-0010952-028.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Lab Control Sample - Batch: 240-48325

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48325/6	Analysis Batch:	240-48325	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0010952-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2012 1117	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	52.9	106	90 - 110	
Fluoride-Dissolved	2.50	2.51	100	90 - 110	
Bromide-Dissolved	10.0	9.77	98	90 - 110	
Sulfate-Dissolved	50.0	49.3	99	90 - 110	

Lab Control Sample - Batch: 240-48325

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48325/29	Analysis Batch:	240-48325	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	29240-0010952-029.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2012 1804	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	53.2	106	90 - 110	
Fluoride-Dissolved	2.50	2.51	100	90 - 110	
Bromide-Dissolved	10.0	9.75	98	90 - 110	
Sulfate-Dissolved	50.0	49.3	99	90 - 110	

Matrix Spike - Batch: 240-48325

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12529-5	Analysis Batch:	240-48325	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	31240-0010952-031.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2012 1837	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	5.3		50.0	61.6	113	80 - 120	
Fluoride-Dissolved	0.053	J	2.50	3.19	125	80 - 120	F
Bromide-Dissolved	0.50	U	10.0	10.4	104	80 - 120	
Sulfate-Dissolved	13		50.0	67.4	108	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-48326

Method: 9056A Preparation: N/A

Lab Sample ID: MB 240-48326/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/21/2012 1100
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48326
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: SIMON
Lab File ID: 5240-0010952-005.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.50	U ^	0.044	0.50

Method Blank - Batch: 240-48326

Method: 9056A Preparation: N/A

Lab Sample ID: MB 240-48326/28
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/21/2012 1748
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48326
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: SIMON
Lab File ID: 28240-0010952-028.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.0689	J ^	0.044	0.50

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Lab Control Sample - Batch: 240-48326

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48326/6	Analysis Batch:	240-48326	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0010952-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2012 1117	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.48	99	90 - 110	
Nitrate as N-Dissolved	2.50	2.37	95	90 - 110	
Orthophosphate-Dissolved	2.50	2.22	89	90 - 110	^ *

Lab Control Sample - Batch: 240-48326

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48326/29	Analysis Batch:	240-48326	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	29240-0010952-029.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2012 1804	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.53	101	90 - 110	
Nitrate as N-Dissolved	2.50	2.39	96	90 - 110	
Orthophosphate-Dissolved	2.50	2.27	91	90 - 110	^

Matrix Spike - Batch: 240-48326

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12529-5	Analysis Batch:	240-48326	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	31240-0010952-031.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2012 1837	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	0.10 U	2.50	2.76	110	80 - 120	
Nitrate as N-Dissolved	0.37	2.50	2.96	103	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-48454

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48454/5	Analysis Batch:	240-48454	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0010982-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2012 1020	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-48454

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48454/6	Analysis Batch:	240-48454	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0010982-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2012 1037	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Orthophosphate-Dissolved	2.50	2.53	101	90 - 110	

Matrix Spike - Batch: 240-48454

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12529-5	Analysis Batch:	240-48454	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	9240-0010982-009.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2012 1129	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Orthophosphate-Dissolved	0.11 J	2.50	4.74	185	80 - 120	F

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-48661

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 240-48661/48
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/22/2012 1837
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48661
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: alk062212.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-48661

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 240-48661/47
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/22/2012 1831
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48661
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: alk062212.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	79.4	80.9	102	90 - 127	

Duplicate - Batch: 240-48661

Method: SM 2320B

Preparation: N/A

Lab Sample ID: 240-12529-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/22/2012 2124
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-48661
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: alk062212.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bicarbonate Alkalinity as CaCO ₃	190	186	0.2	20	
Carbonate Alkalinity as CaCO ₃	5.0 U	5.0	NC	20	U

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-48854

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-48854/5	Analysis Batch:	240-48854	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062512alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/25/2012 1310	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO3	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO3	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-48854

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-48854/4	Analysis Batch:	240-48854	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062512alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/25/2012 1304	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	79.4	83.2	105	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-49375

Lab Sample ID: MB 240-49375/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0745
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as PO4-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-49375

Lab Sample ID: LCS 240-49375/11-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0746
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as PO4-Dissolved	5.50	5.83	106	53 - 134	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12529-1

Method Blank - Batch: 240-49449

Lab Sample ID: MB 240-49449/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 0652
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 240-49449
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Method: SM4500 NH3 -F Preparation: N/A

Instrument ID: DAVE
 Lab File ID: 062912.txt
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.20	U	0.035	0.20

Lab Control Sample - Batch: 240-49449

Lab Sample ID: LCS 240-49449/8
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 06/29/2012 0653
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 240-49449
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Method: SM4500 NH3 -F Preparation: N/A

Instrument ID: DAVE
 Lab File ID: 062912.txt
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	13.9	13.8	99	85 - 114	

TestAmerica

TestAmerica Laboratory location:

Regulatory program:

DW

☐ NPDES

RCRA

☐ Other

TestAmerica Laboratories, Inc.

07/06/2012

TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 12529

Client Arcadis

Site Name _____

By: [Signature]

(Signature)

Cooler Received on 6/21/12Opened on 6/21/12FedEx: 1st Grd ☒ UPS ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____TestAmerica Cooler # _____ Foam Box ☐ Client Cooler ☐ Box ☐ Other mult.Packing material used: Bubble Wrap Foam ☐ Plastic Bag ☐ None ☐ Other _____COOLANT: Wet Ice Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 4G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 5G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 8 (CF 0°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

☒ Multiple on Back2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes ☒ No ☐-Were custody seals on the outside of the cooler(s) signed & dated? Yes ☐ No ☒ NA-Were custody seals on the bottle(s)? Yes ☒ No ☐3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No6. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No7. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No8. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No9. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No10. Were sample(s) at the correct pH upon receipt? ☒ Yes ☐ No ☐ NA11. Were VOAs on the COC? ☒ Yes ☐ No12. Were air bubbles >6 mm in any VOA vials? Yes ☒ No ☐ NA13. Was a trip blank present in the cooler(s)? ☒ Yes ☐ NoContacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO₃; Sulfuric Acid Lot# 041911-H₂SO₄; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

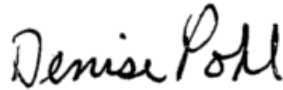
[illegible]

ANALYTICAL REPORT

Job Number: 240-12553-1

Job Description: Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
7/6/2012 11:27 AM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
07/06/2012

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

CASE NARRATIVE

Client: TRW Automotive

Project: Oak Grove Village

Report Number: 240-12553-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/22/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.4 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-102B(20120620) (240-12553-1), VOSSWELL(20120621) (240-12553-2), MW-1(20120621) (240-12553-3) and TRIP BLANK (240-12553-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/29/2012, 06/30/2012 and 07/02/2012.

1,1-Dichloroethene failed the recovery criteria low for the MS/MSD of sample 240-12614-40 in batch 240-49465.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Sample VOSSWELL(20120621) (240-12553-2)[3.33X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-102B(20120620) (240-12553-1), VOSSWELL(20120621) (240-12553-2) and MW-1(20120621) (240-12553-3) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/28/2012 and analyzed on 06/29/2012.

Li and Manganese were detected in method blank MB 240-49161/1-A at levels that were above the method detection limit but below the

reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MW-102B(20120620) (240-12553-1), VOSSWELL(20120621) (240-12553-2) and MW-1(20120621) (240-12553-3) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/28/2012 and analyzed on 06/29/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

ALKALINITY

Samples MW-102B(20120620) (240-12553-1), VOSSWELL(20120621) (240-12553-2) and MW-1(20120621) (240-12553-3) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/29/2012.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Samples MW-102B(20120620) (240-12553-1), VOSSWELL(20120621) (240-12553-2) and MW-1(20120621) (240-12553-3) were analyzed for dissolved ammonia in accordance with SM 4500 NH3 F. The samples were analyzed on 06/29/2012.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED PHOSPHORUS

Samples MW-102B(20120620) (240-12553-1), VOSSWELL(20120621) (240-12553-2) and MW-1(20120621) (240-12553-3) were analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 06/29/2012.

No difficulties were encountered during the phosphorus analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-102B(20120620) (240-12553-1), VOSSWELL(20120621) (240-12553-2) and MW-1(20120621) (240-12553-3) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/22/2012.

Orthophosphate failed the recovery criteria high for the MS of sample 240-12529-5 in batch 240-48454.

Refer to the QC report for details.

No other difficulties were encountered during the anions analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-102B(20120620) (240-12553-1), VOSSWELL(20120621) (240-12553-2) and MW-1(20120621) (240-12553-3) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/22/2012.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12553-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12553-1	MW-102B(20120620)					
Dichlorodifluoromethane		0.91	J	1.0	ug/L	8260B
1,1-Dichloroethane		0.74	J	1.0	ug/L	8260B
Dichlorofluoromethane		18		2.0	ug/L	8260B
Trichloroethene		0.41	J	1.0	ug/L	8260B
Trichlorofluoromethane		5.7		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		250		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		81	J	200	ug/L	6010B
Calcium		55000		5000	ug/L	6010B
Potassium		2400	J	5000	ug/L	6010B
Magnesium		30000		5000	ug/L	6010B
Sodium		9000		5000	ug/L	6010B
Zinc		7.6	J	20	ug/L	6010B
Lead		2.2	J	3.0	ug/L	6010B
SiO2, Silica		14000		1100	ug/L	6010B
Strontium		69		10	ug/L	6020
Chloride-Dissolved		9.0		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.76		0.10	mg/L	9056A
Fluoride-Dissolved		0.037	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.084	J	0.50	mg/L	9056A
Sulfate-Dissolved		7.4		1.0	mg/L	9056A

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12553-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Analyte						
240-12553-2		VOSSWELL(20120621)				
Dichlorodifluoromethane		3.7		1.0	ug/L	8260B
1,1-Dichloroethane		2.9		1.0	ug/L	8260B
Dichlorofluoromethane		91		6.7	ug/L	8260B
Tetrachloroethene		0.91	J	1.0	ug/L	8260B
1,1,1-Trichloroethane		0.33	J	1.0	ug/L	8260B
Trichloroethene		2.0		1.0	ug/L	8260B
Trichlorofluoromethane		43		3.3	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		240		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		190	J	200	ug/L	6010B
Calcium		52000		5000	ug/L	6010B
Potassium		1400	J	5000	ug/L	6010B
Magnesium		29000		5000	ug/L	6010B
Sodium		5400		5000	ug/L	6010B
Zinc		7.3	J	20	ug/L	6010B
Lead		2.2	J	3.0	ug/L	6010B
SiO2, Silica		12000		1100	ug/L	6010B
Strontium		49		10	ug/L	6020
Chloride-Dissolved		8.7		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.1		0.10	mg/L	9056A
Fluoride-Dissolved		0.045	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.083	J	0.50	mg/L	9056A
Sulfate-Dissolved		11		1.0	mg/L	9056A
240-12553-3		MW-1(20120621)				
Bicarbonate Alkalinity as CaCO3		160		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		370		200	ug/L	6010B
Calcium		35000		5000	ug/L	6010B
Potassium		450	J	5000	ug/L	6010B
Magnesium		20000		5000	ug/L	6010B
Manganese		0.44	J B	15	ug/L	6010B
Sodium		2500	J	5000	ug/L	6010B
SiO2, Silica		9500		1100	ug/L	6010B
Strontium		39		10	ug/L	6020
Chloride-Dissolved		1.8		1.0	mg/L	9056A
Nitrate as N-Dissolved		0.92		0.10	mg/L	9056A
Fluoride-Dissolved		0.045	J	1.0	mg/L	9056A
Sulfate-Dissolved		4.4		1.0	mg/L	9056A

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-12553-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC/MS)		TAL NC	SW846 8260B	
Purge and Trap		TAL NC		SW846 5030B
Metals (ICP)		TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Metals (ICP/MS)		TAL NC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Sample Filtration, Field				FIELD_FLTRD
Alkalinity		TAL NC	SM SM 2320B	
Phosphorus		TAL NC	SM SM 4500 P E	
Phosphorus, Total		TAL NC		MCAWW 365.2/365.3/365
Sample Filtration, Field				FIELD_FLTRD
Ammonia		TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration, Field				FIELD_FLTRD

Lab References:

TAL NC = TestAmerica Canton

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-12553-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LE
SW846 6010B	Musselman, Natalie J	NJM
SW846 6020	Davies, Brian	BD
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Burns, Jill	JB
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Kuhle, Julie	JK

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-12553-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-12553-1	MW-102B(20120620)	Water	06/20/2012 1830	06/22/2012 0910
240-12553-2	VOSSWELL(20120621)	Water	06/21/2012 1105	06/22/2012 0910
240-12553-3	MW-1(20120621)	Water	06/21/2012 1210	06/22/2012 0910
240-12553-4TB	TRIP BLANK	Water	06/21/2012 0000	06/22/2012 0910

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-102B(20120620)

Lab Sample ID: 240-12553-1

Date Sampled: 06/20/2012 1830

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49465

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ5513.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 06/29/2012 2349

Final Weight/Volume: 5 mL

Prep Date: 06/29/2012 2349

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.91	J	0.31	1.0
1,1-Dichloroethane	0.74	J	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	18		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-102B(20120620)

Lab Sample ID: 240-12553-1

Date Sampled: 06/20/2012 1830

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5513.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2012 2349			Final Weight/Volume:	5 mL
Prep Date:	06/29/2012 2349				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.41	J	0.17	1.0
Trichlorofluoromethane	5.7		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5514.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2012 0012			Final Weight/Volume:	5 mL
Prep Date:	06/30/2012 0012				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	3.7		0.31	1.0
1,1-Dichloroethane	2.9		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.91	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5514.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2012 0012			Final Weight/Volume:	5 mL
Prep Date:	06/30/2012 0012				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	0.33	J	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	2.0		0.17	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49603	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5544.D
Dilution:	3.33			Initial Weight/Volume:	5 mL
Analysis Date:	07/02/2012 1513			Final Weight/Volume:	5 mL
Prep Date:	07/02/2012 1513				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorofluoromethane	91		1.4	6.7
Trichlorofluoromethane	43		0.70	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		66 - 117
Dibromofluoromethane (Surr)	99		75 - 121
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-1(20120621)

Lab Sample ID: 240-12553-3

Date Sampled: 06/21/2012 1210

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5515.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2012 0035			Final Weight/Volume:	5 mL
Prep Date:	06/30/2012 0035				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-1(20120621)

Lab Sample ID: 240-12553-3

Date Sampled: 06/21/2012 1210

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5515.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2012 0035			Final Weight/Volume:	5 mL
Prep Date:	06/30/2012 0035				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	94		75 - 121
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12553-4TB

Date Sampled: 06/21/2012 0000

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49603

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ5545.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/02/2012 1536

Final Weight/Volume: 5 mL

Prep Date: 07/02/2012 1536

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12553-4TB

Date Sampled: 06/21/2012 0000

Client Matrix: Water

Date Received: 06/22/2012 0910

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49603	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5545.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/02/2012 1536			Final Weight/Volume:	5 mL
Prep Date:	07/02/2012 1536				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		66 - 117
Dibromofluoromethane (Surr)	99		75 - 121
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-102B(20120620)

Lab Sample ID: 240-12553-1

Date Sampled: 06/20/2012 1830

Client Matrix: Water

Date Received: 06/22/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1721			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	81	J	0.67	200
Boron	200	U	34	200
Calcium	55000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2400	J	72	5000
Magnesium	30000		34	5000
Manganese	15	U	0.41	15
Sodium	9000		590	5000
Nickel	40	U	3.2	40
Zinc	7.6	J	5.0	20
Lead	2.2	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	14000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1518			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	69		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1724			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	190	J	0.67	200
Boron	200	U	34	200
Calcium	52000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	1400	J	72	5000
Magnesium	29000		34	5000
Manganese	15	U	0.41	15
Sodium	5400		590	5000
Nickel	40	U	3.2	40
Zinc	7.3	J	5.0	20
Lead	2.2	J	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	12000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1537			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	49		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

Client Sample ID: MW-1(20120621)

Lab Sample ID: 240-12553-3

Date Sampled: 06/21/2012 1210

Client Matrix: Water

Date Received: 06/22/2012 0910

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1728			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	370		0.67	200
Boron	200	U	34	200
Calcium	35000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	450	J	72	5000
Magnesium	20000		34	5000
Manganese	0.44	J B	0.41	15
Sodium	2500	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	9500		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1543			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	39		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

General Chemistry**Client Sample ID: MW-102B(20120620)**

Lab Sample ID: 240-12553-1

Date Sampled: 06/20/2012 1830

Client Matrix: Water

Date Received: 06/22/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	9.0		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1331						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1331						
Fluoride-Dissolved	0.037	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1331						
Nitrate as N-Dissolved	0.76		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1331						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1331						
Orthophosphate-Dissolved	0.084	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1331						
Sulfate-Dissolved	7.4		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1331						
Bicarbonate Alkalinity as CaCO ₃	250		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1549						
Carbonate Alkalinity as CaCO ₃	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1549						
Total Phosphorus as PO ₄ -Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1427						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0752						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH ₃ -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 1003						

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

General Chemistry

Client Sample ID: VOSSWELL(20120621)

Lab Sample ID: 240-12553-2

Date Sampled: 06/21/2012 1105

Client Matrix: Water

Date Received: 06/22/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	8.7		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1349						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1349						
Fluoride-Dissolved	0.045	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1349						
Nitrate as N-Dissolved	1.1		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1349						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1349						
Orthophosphate-Dissolved	0.083	J	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1349						
Sulfate-Dissolved	11		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1349						
Bicarbonate Alkalinity as CaCO3	240		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1559						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1559						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1427						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0753						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3-F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 1003						

Analytical Data

Client: TRW Automotive

Job Number: 240-12553-1

General Chemistry**Client Sample ID:** MW-1(20120621)

Lab Sample ID: 240-12553-3

Date Sampled: 06/21/2012 1210

Client Matrix: Water

Date Received: 06/22/2012 0910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	1.8		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1406						
Nitrite as N-Dissolved	0.10	U	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1406						
Fluoride-Dissolved	0.045	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1406						
Nitrate as N-Dissolved	0.92		mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1406						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1406						
Orthophosphate-Dissolved	0.50	U	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48454	Analysis Date: 06/22/2012 1406						
Sulfate-Dissolved	4.4		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48453	Analysis Date: 06/22/2012 1406						
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1608						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1608						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1427						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0753						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-49449	Analysis Date: 06/29/2012 1003						

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-12553-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS VOA					
Analysis Batch:240-49465					
LCS 240-49465/4	Lab Control Sample	T	Water	8260B	
MB 240-49465/5	Method Blank	T	Water	8260B	
240-12553-1	MW-102B(20120620)	T	Water	8260B	
240-12553-2	VOSSWELL(20120621)	T	Water	8260B	
240-12553-3	MW-1(20120621)	T	Water	8260B	
Analysis Batch:240-49603					
LCS 240-49603/4	Lab Control Sample	T	Water	8260B	
MB 240-49603/5	Method Blank	T	Water	8260B	
240-12553-2	VOSSWELL(20120621)	T	Water	8260B	
240-12553-4TB	TRIP BLANK	T	Water	8260B	
Report Basis					
T = Total					
Metals					
Prep Batch: 240-49161					
LCS 240-49161/2-A	Lab Control Sample	R	Water	3005A	
LCS 240-49161/3-A	Lab Control Sample	R	Water	3005A	
MB 240-49161/1-A	Method Blank	R	Water	3005A	
240-12553-1	MW-102B(20120620)	D	Water	3005A	
240-12553-2	VOSSWELL(20120621)	D	Water	3005A	
240-12553-3	MW-1(20120621)	D	Water	3005A	
Analysis Batch:240-49560					
LCS 240-49161/3-A	Lab Control Sample	R	Water	6020	240-49161
MB 240-49161/1-A	Method Blank	R	Water	6020	240-49161
240-12553-1	MW-102B(20120620)	D	Water	6020	240-49161
240-12553-2	VOSSWELL(20120621)	D	Water	6020	240-49161
240-12553-3	MW-1(20120621)	D	Water	6020	240-49161
Analysis Batch:240-49561					
LCS 240-49161/2-A	Lab Control Sample	R	Water	6010B	240-49161
MB 240-49161/1-A	Method Blank	R	Water	6010B	240-49161
240-12553-1	MW-102B(20120620)	D	Water	6010B	240-49161
240-12553-2	VOSSWELL(20120621)	D	Water	6010B	240-49161
240-12553-3	MW-1(20120621)	D	Water	6010B	240-49161

Report Basis

D = Dissolved

R = Total Recoverable

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:240-48453					
LCS 240-48453/6	Lab Control Sample	T	Water	9056A	
MB 240-48453/5	Method Blank	T	Water	9056A	
240-12553-1	MW-102B(20120620)	D	Water	9056A	
240-12553-2	VOSSWELL(20120621)	D	Water	9056A	
240-12553-3	MW-1(20120621)	D	Water	9056A	
Analysis Batch:240-48454					
LCS 240-48454/6	Lab Control Sample	T	Water	9056A	
MB 240-48454/5	Method Blank	T	Water	9056A	
240-12553-1	MW-102B(20120620)	D	Water	9056A	
240-12553-2	VOSSWELL(20120621)	D	Water	9056A	
240-12553-3	MW-1(20120621)	D	Water	9056A	
Prep Batch: 240-49375					
LCS 240-49375/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-49375/10-A	Method Blank	T	Water	365.2/365.3/365	
240-12553-1	MW-102B(20120620)	D	Water	365.2/365.3/365	
240-12553-2	VOSSWELL(20120621)	D	Water	365.2/365.3/365	
240-12553-3	MW-1(20120621)	D	Water	365.2/365.3/365	
Analysis Batch:240-49449					
LCS 240-49449/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-49449/7	Method Blank	T	Water	SM4500 NH3 -F	
240-12553-1	MW-102B(20120620)	D	Water	SM4500 NH3 -F	
240-12553-2	VOSSWELL(20120621)	D	Water	SM4500 NH3 -F	
240-12553-3	MW-1(20120621)	D	Water	SM4500 NH3 -F	
Analysis Batch:240-49474					
LCS 240-49375/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-49375
MB 240-49375/10-A	Method Blank	T	Water	SM 4500 P E	240-49375
240-12553-1	MW-102B(20120620)	D	Water	SM 4500 P E	240-49375
240-12553-2	VOSSWELL(20120621)	D	Water	SM 4500 P E	240-49375
240-12553-3	MW-1(20120621)	D	Water	SM 4500 P E	240-49375
Analysis Batch:240-49573					
LCS 240-49573/4	Lab Control Sample	T	Water	SM 2320B	
MB 240-49573/5	Method Blank	T	Water	SM 2320B	
240-12553-1	MW-102B(20120620)	T	Water	SM 2320B	
240-12553-2	VOSSWELL(20120621)	T	Water	SM 2320B	
240-12553-3	MW-1(20120621)	T	Water	SM 2320B	

Report Basis

D = Dissolved

T = Total

TestAmerica Canton

Client: TRW Automotive

Job Number: 240-12553-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-12553-1	MW-102B(20120620)	101	97	88	95
240-12553-2	VOSSWELL(20120621)	102	95	87	97
240-12553-2	VOSSWELL(20120621)	106	99	90	95
240-12553-3	MW-1(20120621)	103	94	87	97
240-12553-4	TRIP BLANK	107	99	88	97
MB 240-49465/5		103	94	86	94
MB 240-49603/5		108	97	88	97
LCS 240-49465/4		105	98	93	98
LCS 240-49603/4		107	100	95	98

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49465

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49465/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 2327
 Prep Date: 06/29/2012 2327
 Leach Date: N/A

Analysis Batch: 240-49465
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5512.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49465

Method: 8260B

Preparation: 5030B

Lab Sample ID:	MB 240-49465/5	Analysis Batch:	240-49465	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5512.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2012 2327	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/29/2012 2327				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	66 - 117
Dibromofluoromethane (Surr)	94	75 - 121
1,2-Dichloroethane-d4 (Surr)	86	63 - 129
Toluene-d8 (Surr)	94	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Lab Control Sample - Batch: 240-49465

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49465/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 2241
 Prep Date: 06/29/2012 2241
 Leach Date: N/A

Analysis Batch: 240-49465
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5510.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.72	97	83 - 112	
Bromobenzene	10.0	10.3	103	76 - 115	
Bromoform	10.0	9.83	98	40 - 131	
Bromomethane	10.0	10.8	108	11 - 185	
Carbon tetrachloride	10.0	9.04	90	66 - 128	
Chlorobenzene	10.0	9.55	96	85 - 110	
Chloroethane	10.0	8.88	89	25 - 153	
Chloroform	10.0	9.49	95	79 - 117	
Chloromethane	10.0	9.56	96	44 - 126	
2-Chlorotoluene	10.0	10.0	100	76 - 116	
4-Chlorotoluene	10.0	9.99	100	77 - 115	
cis-1,2-Dichloroethene	10.0	9.69	97	80 - 113	
cis-1,3-Dichloropropene	10.0	8.96	90	61 - 115	
Dibromomethane	10.0	10.2	102	81 - 120	
1,2-Dichlorobenzene	10.0	9.25	93	81 - 110	
1,3-Dichlorobenzene	10.0	9.45	95	80 - 110	
1,4-Dichlorobenzene	10.0	9.19	92	82 - 110	
Bromodichloromethane	10.0	9.56	96	72 - 121	
Dichlorodifluoromethane	10.0	8.99	90	19 - 129	
1,1-Dichloroethane	10.0	9.95	100	82 - 115	
1,2-Dichloroethane	10.0	9.62	96	71 - 127	
1,1-Dichloroethene	10.0	9.69	97	78 - 131	
1,2-Dichloropropane	10.0	9.68	97	81 - 115	
1,3-Dichloropropane	10.0	9.68	97	79 - 116	
2,2-Dichloropropane	10.0	8.05	81	50 - 129	
1,1-Dichloropropene	10.0	9.03	90	83 - 114	
Ethylbenzene	10.0	8.94	89	83 - 112	
Hexachlorobutadiene	10.0	8.24	82	36 - 134	
Isopropylbenzene	10.0	9.14	91	75 - 114	
p-Isopropyltoluene	10.0	9.64	96	74 - 120	
Methylene Chloride	10.0	10.3	103	66 - 131	
m-Xylene & p-Xylene	20.0	18.6	93	83 - 113	
Naphthalene	10.0	6.62	66	32 - 141	
n-Butylbenzene	10.0	8.44	84	66 - 125	
N-Propylbenzene	10.0	9.68	97	74 - 121	
o-Xylene	10.0	9.53	95	83 - 113	
sec-Butylbenzene	10.0	9.40	94	70 - 117	
Styrene	10.0	9.78	98	79 - 114	
tert-Butylbenzene	10.0	9.79	98	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	9.52	95	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	9.31	93	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Lab Control Sample - Batch: 240-49465

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49465/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 2241
 Prep Date: 06/29/2012 2241
 Leach Date: N/A

Analysis Batch: 240-49465
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5510.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	8.95	90	79 - 114	
Toluene	10.0	9.28	93	84 - 111	
trans-1,2-Dichloroethene	10.0	9.76	98	83 - 117	
trans-1,3-Dichloropropene	10.0	8.84	88	58 - 117	
1,2,3-Trichlorobenzene	10.0	7.55	76	54 - 126	
1,2,4-Trichlorobenzene	10.0	8.65	87	48 - 135	
1,1,1-Trichloroethane	10.0	8.94	89	74 - 118	
1,1,2-Trichloroethane	10.0	10.2	102	80 - 112	
Trichloroethene	10.0	9.45	95	76 - 117	
Trichlorofluoromethane	10.0	8.82	88	49 - 157	
1,2,3-Trichloropropane	10.0	10.2	102	73 - 129	
1,2,4-Trimethylbenzene	10.0	10.2	102	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.91	99	72 - 118	
Vinyl chloride	10.0	9.50	95	53 - 127	
Bromochloromethane	10.0	10.0	100	77 - 120	
1,2-Dibromoethane	10.0	9.42	94	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	105		66 - 117		
Dibromofluoromethane (Surr)	98		75 - 121		
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		
Toluene-d8 (Surr)	98		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49603

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49603/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/02/2012 1315
Prep Date: 07/02/2012 1315
Leach Date: N/A

Analysis Batch: 240-49603
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX11
Lab File ID: UXJ5539.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49603

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49603/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/02/2012 1315
 Prep Date: 07/02/2012 1315
 Leach Date: N/A

Analysis Batch: 240-49603
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5539.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	108	66 - 117
Dibromofluoromethane (Surr)	97	75 - 121
1,2-Dichloroethane-d4 (Surr)	88	63 - 129
Toluene-d8 (Surr)	97	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Lab Control Sample - Batch: 240-49603

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49603/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/02/2012 1229
Prep Date: 07/02/2012 1229
Leach Date: N/A

Analysis Batch: 240-49603
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX11
Lab File ID: UXJ5537.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.96	100	83 - 112	
Bromobenzene	10.0	10.7	107	76 - 115	
Bromoform	10.0	10.5	105	40 - 131	
Bromomethane	10.0	10.7	107	11 - 185	
Carbon tetrachloride	10.0	9.42	94	66 - 128	
Chlorobenzene	10.0	10.0	100	85 - 110	
Chloroethane	10.0	8.90	89	25 - 153	
Chloroform	10.0	9.49	95	79 - 117	
Chloromethane	10.0	9.55	96	44 - 126	
2-Chlorotoluene	10.0	10.8	108	76 - 116	
4-Chlorotoluene	10.0	10.9	109	77 - 115	
cis-1,2-Dichloroethene	10.0	9.64	96	80 - 113	
cis-1,3-Dichloropropene	10.0	9.66	97	61 - 115	
Dibromomethane	10.0	10.2	102	81 - 120	
1,2-Dichlorobenzene	10.0	9.38	94	81 - 110	
1,3-Dichlorobenzene	10.0	10.1	101	80 - 110	
1,4-Dichlorobenzene	10.0	9.52	95	82 - 110	
Bromodichloromethane	10.0	9.89	99	72 - 121	
Dichlorodifluoromethane	10.0	8.87	89	19 - 129	
1,1-Dichloroethane	10.0	10.1	101	82 - 115	
1,2-Dichloroethane	10.0	9.95	100	71 - 127	
1,1-Dichloroethene	10.0	9.76	98	78 - 131	
1,2-Dichloropropane	10.0	9.97	100	81 - 115	
1,3-Dichloropropane	10.0	9.79	98	79 - 116	
2,2-Dichloropropane	10.0	9.27	93	50 - 129	
1,1-Dichloropropene	10.0	9.56	96	83 - 114	
Ethylbenzene	10.0	9.63	96	83 - 112	
Hexachlorobutadiene	10.0	9.34	93	36 - 134	
Isopropylbenzene	10.0	9.92	99	75 - 114	
p-Isopropyltoluene	10.0	10.4	104	74 - 120	
Methylene Chloride	10.0	9.66	97	66 - 131	
m-Xylene & p-Xylene	20.0	19.6	98	83 - 113	
Naphthalene	10.0	6.91	69	32 - 141	
n-Butylbenzene	10.0	9.24	92	66 - 125	
N-Propylbenzene	10.0	10.5	105	74 - 121	
o-Xylene	10.0	10.1	101	83 - 113	
sec-Butylbenzene	10.0	10.4	104	70 - 117	
Styrene	10.0	10.2	102	79 - 114	
tert-Butylbenzene	10.0	10.6	106	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	10.0	100	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	9.72	97	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Lab Control Sample - Batch: 240-49603

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49603/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/02/2012 1229
 Prep Date: 07/02/2012 1229
 Leach Date: N/A

Analysis Batch: 240-49603
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5537.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	9.82	98	79 - 114	
Toluene	10.0	9.45	95	84 - 111	
trans-1,2-Dichloroethene	10.0	9.91	99	83 - 117	
trans-1,3-Dichloropropene	10.0	9.73	97	58 - 117	
1,2,3-Trichlorobenzene	10.0	7.99	80	54 - 126	
1,2,4-Trichlorobenzene	10.0	9.00	90	48 - 135	
1,1,1-Trichloroethane	10.0	9.33	93	74 - 118	
1,1,2-Trichloroethane	10.0	10.2	102	80 - 112	
Trichloroethene	10.0	10.1	101	76 - 117	
Trichlorofluoromethane	10.0	7.44	74	49 - 157	
1,2,3-Trichloropropane	10.0	10.4	104	73 - 129	
1,2,4-Trimethylbenzene	10.0	10.8	108	76 - 120	
1,3,5-Trimethylbenzene	10.0	10.6	106	72 - 118	
Vinyl chloride	10.0	9.09	91	53 - 127	
Bromochloromethane	10.0	10.2	102	77 - 120	
1,2-Dibromoethane	10.0	9.76	98	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	107		66 - 117		
Dibromofluoromethane (Surr)	100		75 - 121		
1,2-Dichloroethane-d4 (Surr)	95		63 - 129		
Toluene-d8 (Surr)	98		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49161

Lab Sample ID: MB 240-49161/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1634
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	200	U	0.67	200
Boron	200	U	34	200
Calcium	5000	U	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	5000	U	34	5000
Manganese	0.515	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	4.53	J	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-49161

Lab Sample ID: LCS 240-49161/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1638
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2260	113	80 - 120	
Boron	1000	1130	113	80 - 120	
Calcium	50000	52100	104	80 - 120	
Chromium	200	207	104	80 - 120	
Iron	1000	1070	107	80 - 120	
Potassium	50000	52700	105	80 - 120	
Magnesium	50000	50000	100	80 - 120	
Manganese	500	529	106	80 - 120	
Sodium	50000	53700	107	80 - 120	
Nickel	500	512	102	80 - 120	
Zinc	500	518	104	80 - 120	
Lead	500	512	102	80 - 120	
Lithium	1000	1050	105	80 - 120	
SiO2, Silica	2140	2430	114	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49161

Lab Sample ID: MB 240-49161/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 1404
 Prep Date: 06/28/2012 0651
 Leach Date: N/A

Analysis Batch: 240-49560
 Prep Batch: 240-49161
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
 Lab File ID: I8062912A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	10	U	0.33	10

Lab Control Sample - Batch: 240-49161

Lab Sample ID: LCS 240-49161/3-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 1422
 Prep Date: 06/28/2012 0651
 Leach Date: N/A

Analysis Batch: 240-49560
 Prep Batch: 240-49161
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
 Lab File ID: I8062912A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	925	92	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-48453

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48453/5	Analysis Batch:	240-48453	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0010982-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2012 1020	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-48453

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48453/6	Analysis Batch:	240-48453	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0010982-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2012 1037	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	51.2	102	90 - 110	
Fluoride-Dissolved	2.50	2.49	100	90 - 110	
Bromide-Dissolved	10.0	9.90	99	90 - 110	
Sulfate-Dissolved	50.0	49.4	99	90 - 110	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-48454

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48454/5	Analysis Batch:	240-48454	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0010982-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2012 1020	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-48454

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48454/6	Analysis Batch:	240-48454	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0010982-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2012 1037	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.47	99	90 - 110	
Nitrate as N-Dissolved	2.50	2.47	99	90 - 110	
Orthophosphate-Dissolved	2.50	2.53	101	90 - 110	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49573

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-49573/5	Analysis Batch:	240-49573	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062912alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/29/2012 1211	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO3	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO3	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-49573

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-49573/4	Analysis Batch:	240-49573	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062912alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/29/2012 1205	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	79.4	82.5	104	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49375

Lab Sample ID: MB 240-49375/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0745
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as PO4-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-49375

Lab Sample ID: LCS 240-49375/11-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0746
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as PO4-Dissolved	5.50	5.83	106	53 - 134	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12553-1

Method Blank - Batch: 240-49449

Lab Sample ID: MB 240-49449/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 0652
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 240-49449
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Method: SM4500 NH3 -F Preparation: N/A

Instrument ID: DAVE
 Lab File ID: 062912.txt
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.20	U	0.035	0.20

Lab Control Sample - Batch: 240-49449

Lab Sample ID: LCS 240-49449/8
 Client Matrix: Water
 Dilution: 5.0
 Analysis Date: 06/29/2012 0653
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 240-49449
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Method: SM4500 NH3 -F Preparation: N/A

Instrument ID: DAVE
 Lab File ID: 062912.txt
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	13.9	13.8	99	85 - 114	

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Client ArCADIS Site Name _____ By: Mike Malone
Cooler Received on 6/22/12 Opened on 6/22/12 (Signature)
FedEx: 1st Grd ☒ Exp ☐ UPS ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # A629 Foam Box ☐ Client Cooler ☐ Box ☐ Other _____
Packing material used: Bubble Wrap Foam ☐ Plastic Bag ☐ None ☐ Other _____
COOLANT: Wet Ice Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

1. Cooler temperature upon receipt
- | | | | |
|----------------------|-------------------------------------|--------------------------------------|--|
| IR GUN# 1 (CF 0°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | <input checked="" type="checkbox"/> Multiple on Back |
| IR GUN# 4G (CF -1°C) | Observed Sample Temp. <u>1.4</u> °C | Corrected Sample Temp. <u>0.4</u> °C | |
| IR GUN# 5G (CF -1°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | |
| IR GUN# 8 (CF 0°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | |
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 ☒ Yes ☐ No
-Were custody seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No ☐ NA
-Were custody seals on the bottle(s)? ☒ Yes ☐ No
3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No
4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No
5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No
6. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No
7. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No
8. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No
9. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No
10. Were sample(s) at the correct pH upon receipt? ☒ Yes ☐ No ☐ NA
11. Were VOAs on the COC? ☒ Yes ☐ No
12. Were air bubbles >6 mm in any VOA vials? ☐ Yes ☒ No ☐ NA
13. Was a trip blank present in the cooler(s)? ☒ Yes ☐ No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**15. SAMPLE CONDITION**

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

[illegible]

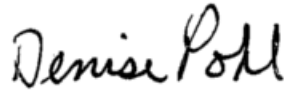
07/06/2012

ANALYTICAL REPORT

Job Number: 240-12605-1

Job Description: Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
7/12/2012 2:10 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
07/12/2012

cc: Mr. John Shonfelt
Kirsten Wright

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

CASE NARRATIVE

Client: TRW Automotive

Project: Oak Grove Village

Report Number: 240-12605-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/23/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.8 C.

Sample MW-101(20120622) (240-12605-1), was not analyzed on a lab filtered sample for Nitrate, Nitrite and o-Phosphate in accordance with EPA SW-846 Method 9056A, as the instructions were not clear on the chain of custody for the lab to filter the sample and these analysis have a short holding time. The other analysis with longer holding time were lab filtered.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2), MW-102A(20120622) (240-12605-3) and TRIP BLANK (240-12605-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/03/2012 and 07/05/2012.

Methylene Chloride was detected in method blank MB 240-49717/5 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Hexachlorobutadiene was detected in method blank MB 240-49717/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Methylene Chloride was detected in method blank MB 240-49859/5 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

1,1-Dichloroethane failed the recovery criteria high for LCS 240-49717/4. Refer to the QC report for details.

Method(s) 8260B: The laboratory control sample (LCS) for batch 49717 exceeded control limits for the following analytes: 1,1-Dichloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/28/2012 and 07/05/2012 and analyzed on 06/29/2012, 07/07/2012 and 07/09/2012.

Several analytes were detected in method blank MB 240-49868/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Lithium and Manganese were detected in method blank MB 240-49161/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/28/2012 and 07/05/2012 and analyzed on 06/29/2012 and 07/06/2012.

Strontium was detected in method blank MB 240-49868/1-C at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

ALKALINITY

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/29/2012 and 07/03/2012.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved ammonia in accordance with SM 4500 NH3 F. The samples were analyzed on 07/09/2012 and 07/10/2012.

Ammonia was detected in method blank MB 240-50305/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Ammonia was detected in method blank MB 240-50241/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the ammonia analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED PHOSPHORUS

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 06/29/2012.

No difficulties were encountered during the phosphorus analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/25/2012 and 06/26/2012.

Method 9056A: The following samples were analyzed outside analytical holding time due to instrument failure: MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3).

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

ANIONS

Sample MW-101(20120622) (240-12605-1) was analyzed for anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/25/2012 and 06/26/2012.

Orthophosphate failed the recovery criteria high for the MS of sample MW-101(20120622)MS (240-12605-1) in batch 240-48902.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Method 9056A: The following sample was analyzed outside analytical holding time due to instrument failure: MW-101(20120622) (240-12605-1).

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/25/2012 and 07/06/2012.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12605-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12605-1	MW-101(20120622)					
cis-1,2-Dichloroethene		0.58	J	1.0	ug/L	8260B
Dichlorodifluoromethane		2.8		1.0	ug/L	8260B
1,1-Dichloroethane		0.32	J *	1.0	ug/L	8260B
Dichlorofluoromethane		20		2.0	ug/L	8260B
Tetrachloroethene		0.33	J	1.0	ug/L	8260B
Trichloroethene		1.8		1.0	ug/L	8260B
Trichlorofluoromethane		18		1.0	ug/L	8260B
Nitrate as N		0.82	H	0.10	mg/L	9056A
Orthophosphate		0.19	J H	0.50	mg/L	9056A
Bicarbonate Alkalinity as CaCO3		260		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		55	J B	200	ug/L	6010B
Calcium		57000	B	5000	ug/L	6010B
Potassium		1900	J	5000	ug/L	6010B
Magnesium		32000	B	5000	ug/L	6010B
Sodium		4900	J	5000	ug/L	6010B
Zinc		27	J B	50	ug/L	6010B
Lithium		11	J	50	ug/L	6010B
SiO2, Silica		9000	B	1100	ug/L	6010B
Strontium		52	B	10	ug/L	6020
Chloride-Dissolved		7.4		1.0	mg/L	9056A
Fluoride-Dissolved		0.043	J	1.0	mg/L	9056A
Bromide-Dissolved		0.088	J	0.50	mg/L	9056A
Sulfate-Dissolved		7.2		1.0	mg/L	9056A
Ammonia-Dissolved		0.082	J B	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12605-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12605-2	MW-1A(20120622)					
cis-1,2-Dichloroethene		0.55	J	1.0	ug/L	8260B
Dichlorodifluoromethane		0.75	J	1.0	ug/L	8260B
1,1-Dichloroethane		0.65	J *	1.0	ug/L	8260B
Dichlorofluoromethane		23		2.0	ug/L	8260B
Trichloroethene		0.88	J	1.0	ug/L	8260B
Trichlorofluoromethane		5.0		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		280		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		120	J	200	ug/L	6010B
Boron		43	J	200	ug/L	6010B
Calcium		62000		5000	ug/L	6010B
Potassium		2700	J	5000	ug/L	6010B
Magnesium		32000		5000	ug/L	6010B
Manganese		0.81	J B	15	ug/L	6010B
Sodium		5600		5000	ug/L	6010B
Zinc		5.5	J	20	ug/L	6010B
SiO2, Silica		11000		1100	ug/L	6010B
Strontium		91		10	ug/L	6020
Chloride-Dissolved		6.3		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.6	H	0.10	mg/L	9056A
Fluoride-Dissolved		0.042	J	1.0	mg/L	9056A
Sulfate-Dissolved		6.2		1.0	mg/L	9056A

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12605-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12605-3	MW-102A(20120622)					
Dichlorodifluoromethane		1.5		1.0	ug/L	8260B
1,1-Dichloroethane		1.3		1.0	ug/L	8260B
Dichlorofluoromethane		17		2.0	ug/L	8260B
Trichloroethene		0.81	J	1.0	ug/L	8260B
Trichlorofluoromethane		9.4		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		160		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		50	J	200	ug/L	6010B
Calcium		39000		5000	ug/L	6010B
Potassium		830	J	5000	ug/L	6010B
Magnesium		21000		5000	ug/L	6010B
Sodium		2800	J	5000	ug/L	6010B
Lithium		1.8	J B	50	ug/L	6010B
SiO2, Silica		10000		1100	ug/L	6010B
Strontium		41		10	ug/L	6020
Chloride-Dissolved		5.3		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.2	H	0.10	mg/L	9056A
Fluoride-Dissolved		0.050	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.054	J H	0.50	mg/L	9056A
Sulfate-Dissolved		12		1.0	mg/L	9056A
Ammonia-Dissolved		0.049	J B	0.20	mg/L	SM4500 NH3 -F
240-12605-4TB	TRIP BLANK					
Methylene Chloride		1.7	B	1.0	ug/L	8260B

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-12605-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC/MS)		TAL NC	SW846 8260B	
Purge and Trap		TAL NC		SW846 5030B
Metals (ICP)		TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Metals (ICP)		TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration		TAL NC		FILTRATION
Metals (ICP/MS)		TAL NC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Metals (ICP/MS)		TAL NC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration		TAL NC		FILTRATION
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Sample Filtration, Field				FIELD_FLTRD
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Sample Filtration		TAL NC		Filtration
Alkalinity		TAL NC	SM SM 2320B	
Phosphorus		TAL NC	SM SM 4500 P E	
Phosphorus, Total		TAL NC		MCAWW 365.2/365.3/365
Sample Filtration, Field				FIELD_FLTRD
Phosphorus		TAL NC	SM SM 4500 P E	
Phosphorus, Total		TAL NC		MCAWW 365.2/365.3/365
Sample Filtration		TAL NC		Filtration
Ammonia		TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration, Field				FIELD_FLTRD
Ammonia		TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration		TAL NC		Filtration

Lab References:

TAL NC = TestAmerica Canton

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-12605-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LE
SW846 6010B	Musselman, Natalie J	NJM
SW846 6020	Davies, Brian	BD
SW846 9056A	Burns, Jill	JB
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Burns, Jill	JB
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Kuhle, Julie	JK

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-12605-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-12605-1	MW-101(20120622)	Water	06/22/2012 0955	06/23/2012 0945
240-12605-2	MW-1A(20120622)	Water	06/21/2012 1705	06/23/2012 0945
240-12605-3	MW-102A(20120622)	Water	06/22/2012 1215	06/23/2012 0945
240-12605-4TB	TRIP BLANK	Water	06/22/2012 0000	06/23/2012 0945

SAMPLE RESULTS

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49717

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4865.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/03/2012 1632

Final Weight/Volume: 5 mL

Prep Date: 07/03/2012 1632

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.58	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.8		0.31	1.0
1,1-Dichloroethane	0.32	J *	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	20		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.33	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4865.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1632			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.8		0.17	1.0
Trichlorofluoromethane	18		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	103		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49717

Instrument ID: A3UX15

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXC4866.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/03/2012 1655

Final Weight/Volume: 5 mL

Prep Date: 07/03/2012 1655

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.55	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.75	J	0.31	1.0
1,1-Dichloroethane	0.65	J *	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	23		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4866.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1655			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1655				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.88	J	0.17	1.0
Trichlorofluoromethane	5.0		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	113		75 - 121
1,2-Dichloroethane-d4 (Surr)	112		63 - 129
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49859	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5599.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2012 1338			Final Weight/Volume:	5 mL
Prep Date:	07/05/2012 1338				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.5		0.31	1.0
1,1-Dichloroethane	1.3		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	17		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49859	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5599.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2012 1338			Final Weight/Volume:	5 mL
Prep Date:	07/05/2012 1338				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.81	J	0.17	1.0
Trichlorofluoromethane	9.4		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12605-4TB

Client Matrix: Water

Date Sampled: 06/22/2012 0000

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49859

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ5600.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/05/2012 1400

Final Weight/Volume: 5 mL

Prep Date: 07/05/2012 1400

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.7	B	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12605-4TB

Date Sampled: 06/22/2012 0000

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49859

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ5600.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/05/2012 1400

Final Weight/Volume: 5 mL

Prep Date: 07/05/2012 1400

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	94		75 - 121
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-50182	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49871	Lab File ID:	I9070612A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/07/2012 0232			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Boron	200	U	34	200
Barium	55	J B	0.67	200
Calcium	57000	B	130	5000
Chromium	5.0	U	2.2	5.0
Potassium	1900	J	72	5000
Manganese	15	U	0.41	15
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	27	J B	5.0	50
Lithium	11	J	1.8	50
SiO2, Silica	9000	B	14	1100

Analysis Method:	6010B	Analysis Batch:	240-50312	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49871	Lab File ID:	I9070912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/09/2012 1853			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	100	U	81	100
Magnesium	32000	B	34	5000
Sodium	4900	J	590	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-50170	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49878	Lab File ID:	I8070612A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/06/2012 1312			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 1003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	52	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1740			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	J	0.67	200
Boron	43	J	34	200
Calcium	62000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2700	J	72	5000
Magnesium	32000		34	5000
Manganese	0.81	J B	0.41	15
Sodium	5600		590	5000
Nickel	40	U	3.2	40
Zinc	5.5	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1600			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	91		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1744			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	50	J	0.67	200
Boron	200	U	34	200
Calcium	39000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	830	J	72	5000
Magnesium	21000		34	5000
Manganese	15	U	0.41	15
Sodium	2800	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	1.8	J B	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1605			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	41		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry**Client Sample ID: MW-101(20120622)**

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.4		mg/L	0.10	1.0	1.0	9056A
	Analysis Batch: 240-50113	Analysis Date: 07/06/2012 1958					
Nitrite as N	0.10	U H	mg/L	0.012	0.10	1.0	9056A
	Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1235					
Fluoride-Dissolved	0.043	J	mg/L	0.015	1.0	1.0	9056A
	Analysis Batch: 240-50113	Analysis Date: 07/06/2012 1958					
Nitrate as N	0.82	H	mg/L	0.023	0.10	1.0	9056A
	Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1235					
Bromide-Dissolved	0.088	J	mg/L	0.081	0.50	1.0	9056A
	Analysis Batch: 240-50113	Analysis Date: 07/06/2012 1958					
Orthophosphate	0.19	J H	mg/L	0.044	0.50	1.0	9056A
	Analysis Batch: 240-48902	Analysis Date: 06/26/2012 1323					
Sulfate-Dissolved	7.2		mg/L	0.12	1.0	1.0	9056A
	Analysis Batch: 240-50113	Analysis Date: 07/06/2012 1958					
Bicarbonate Alkalinity as CaCO3	260		mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1645					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
	Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1645					
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
	Analysis Batch: 240-49478	Analysis Date: 06/29/2012 1604					
	Prep Batch: 240-49419	Prep Date: 06/29/2012 0751					
Ammonia-Dissolved	0.082	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
	Analysis Batch: 240-50397	Analysis Date: 07/10/2012 1256					

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry**Client Sample ID:** MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1308						
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1308						
Fluoride-Dissolved	0.042	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1308						
Nitrate as N-Dissolved	1.6	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1308						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1308						
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48902	Analysis Date: 06/26/2012 1416						
Sulfate-Dissolved	6.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1308						
Bicarbonate Alkalinity as CaCO3	280		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1656						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1656						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0746						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-50241	Analysis Date: 07/09/2012 0835						

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Client Matrix: Water

Date Sampled: 06/22/2012 1215

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1252						
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1252						
Fluoride-Dissolved	0.050	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1252						
Nitrate as N-Dissolved	1.2	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1252						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1252						
Orthophosphate-Dissolved	0.054	J H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48902	Analysis Date: 06/26/2012 1433						
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1252						
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49870	Analysis Date: 07/03/2012 1643						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49870	Analysis Date: 07/03/2012 1643						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0748						
Ammonia-Dissolved	0.049	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-50241	Analysis Date: 07/09/2012 0835						

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-12605-1

Lab Section	Qualifier	Description
GC/MS VOA	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-49717					
LCS 240-49717/4	Lab Control Sample	T	Water	8260B	
MB 240-49717/5	Method Blank	T	Water	8260B	
240-12605-1	MW-101(20120622)	T	Water	8260B	
240-12605-2	MW-1A(20120622)	T	Water	8260B	
Analysis Batch:240-49859					
LCS 240-49859/4	Lab Control Sample	T	Water	8260B	
MB 240-49859/5	Method Blank	T	Water	8260B	
240-12605-3	MW-102A(20120622)	T	Water	8260B	
240-12605-4TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 240-49161					
LCS 240-49161/2-A	Lab Control Sample	R	Water	3005A	
LCS 240-49161/3-A	Lab Control Sample	R	Water	3005A	
MB 240-49161/1-A	Method Blank	R	Water	3005A	
240-12605-2	MW-1A(20120622)	D	Water	3005A	
240-12605-3	MW-102A(20120622)	D	Water	3005A	
Analysis Batch:240-49560					
LCS 240-49161/3-A	Lab Control Sample	R	Water	6020	240-49161
MB 240-49161/1-A	Method Blank	R	Water	6020	240-49161
240-12605-2	MW-1A(20120622)	D	Water	6020	240-49161
240-12605-3	MW-102A(20120622)	D	Water	6020	240-49161
Analysis Batch:240-49561					
LCS 240-49161/2-A	Lab Control Sample	R	Water	6010B	240-49161
MB 240-49161/1-A	Method Blank	R	Water	6010B	240-49161
240-12605-2	MW-1A(20120622)	D	Water	6010B	240-49161
240-12605-3	MW-102A(20120622)	D	Water	6010B	240-49161
Prep Batch: 240-49871					
LCS 240-49871/2-A	Lab Control Sample	R	Water	3005A	
MB 240-49868/1-B	Method Blank	D	Water	3005A	
240-12605-1	MW-101(20120622)	D	Water	3005A	
Prep Batch: 240-49878					
LCS 240-49878/2-A	Lab Control Sample	R	Water	3005A	
MB 240-49868/1-C	Method Blank	D	Water	3005A	
240-12605-1	MW-101(20120622)	D	Water	3005A	
Analysis Batch:240-50170					
LCS 240-49878/2-A	Lab Control Sample	R	Water	6020	240-49878
MB 240-49868/1-C	Method Blank	D	Water	6020	240-49878
240-12605-1	MW-101(20120622)	D	Water	6020	240-49878
Analysis Batch:240-50182					
LCS 240-49871/2-A	Lab Control Sample	R	Water	6010B	240-49871
MB 240-49868/1-B	Method Blank	D	Water	6010B	240-49871
240-12605-1	MW-101(20120622)	D	Water	6010B	240-49871
Analysis Batch:240-50312					
240-12605-1	MW-101(20120622)	D	Water	6010B	240-49871

Report Basis

D = Dissolved

R = Total Recoverable

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:240-48696					
LCS 240-48696/6	Lab Control Sample	T	Water	9056A	
MB 240-48696/5	Method Blank	T	Water	9056A	
240-12605-2	MW-1A(20120622)	D	Water	9056A	
240-12605-2MS	Matrix Spike	D	Water	9056A	
240-12605-3	MW-102A(20120622)	D	Water	9056A	
Analysis Batch:240-48697					
LCS 240-48697/6	Lab Control Sample	T	Water	9056A	
MB 240-48697/5	Method Blank	T	Water	9056A	
240-12605-1	MW-101(20120622)	T	Water	9056A	
240-12605-2	MW-1A(20120622)	D	Water	9056A	
240-12605-2MS	Matrix Spike	D	Water	9056A	
240-12605-3	MW-102A(20120622)	D	Water	9056A	
Analysis Batch:240-48902					
LCS 240-48902/5	Lab Control Sample	T	Water	9056A	
MB 240-48902/4	Method Blank	T	Water	9056A	
240-12605-1	MW-101(20120622)	T	Water	9056A	
240-12605-1MS	Matrix Spike	T	Water	9056A	
240-12605-2	MW-1A(20120622)	D	Water	9056A	
240-12605-3	MW-102A(20120622)	D	Water	9056A	
Prep Batch: 240-49375					
LCS 240-49375/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-49375/10-A	Method Blank	T	Water	365.2/365.3/365	
240-12605-2	MW-1A(20120622)	D	Water	365.2/365.3/365	
240-12605-2MS	Matrix Spike	D	Water	365.2/365.3/365	
240-12605-2MSD	Matrix Spike Duplicate	D	Water	365.2/365.3/365	
240-12605-3	MW-102A(20120622)	D	Water	365.2/365.3/365	
Prep Batch: 240-49419					
LCS 240-49413/2-B	Lab Control Sample	D	Water	365.2/365.3/365	
MB 240-49413/1-B	Method Blank	D	Water	365.2/365.3/365	
240-12605-1	MW-101(20120622)	D	Water	365.2/365.3/365	
240-12605-1MS	Matrix Spike	D	Water	365.2/365.3/365	
240-12605-1MSD	Matrix Spike Duplicate	D	Water	365.2/365.3/365	
Analysis Batch:240-49474					
LCS 240-49375/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-49375
MB 240-49375/10-A	Method Blank	T	Water	SM 4500 P E	240-49375
240-12605-2	MW-1A(20120622)	D	Water	SM 4500 P E	240-49375
240-12605-2MS	Matrix Spike	D	Water	SM 4500 P E	240-49375
240-12605-2MSD	Matrix Spike Duplicate	D	Water	SM 4500 P E	240-49375
240-12605-3	MW-102A(20120622)	D	Water	SM 4500 P E	240-49375

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-49478					
LCS 240-49413/2-B	Lab Control Sample	D	Water	SM 4500 P E	240-49419
MB 240-49413/1-B	Method Blank	D	Water	SM 4500 P E	240-49419
240-12605-1	MW-101(20120622)	D	Water	SM 4500 P E	240-49419
240-12605-1MS	Matrix Spike	D	Water	SM 4500 P E	240-49419
240-12605-1MSD	Matrix Spike Duplicate	D	Water	SM 4500 P E	240-49419
Analysis Batch:240-49573					
LCS 240-49573/4	Lab Control Sample	T	Water	SM 2320B	
MB 240-49573/5	Method Blank	T	Water	SM 2320B	
240-12605-1	MW-101(20120622)	T	Water	SM 2320B	
240-12605-2	MW-1A(20120622)	T	Water	SM 2320B	
Analysis Batch:240-49870					
LCS 240-49870/4	Lab Control Sample	T	Water	SM 2320B	
MB 240-49870/5	Method Blank	T	Water	SM 2320B	
240-12605-3	MW-102A(20120622)	T	Water	SM 2320B	
Analysis Batch:240-50113					
LCS 240-50108/2-A	Lab Control Sample	D	Water	9056A	
MB 240-50108/1-A	Method Blank	D	Water	9056A	
240-12605-1	MW-101(20120622)	D	Water	9056A	
240-12605-1MS	Matrix Spike	D	Water	9056A	
Analysis Batch:240-50241					
LCS 240-50241/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-50241/7	Method Blank	T	Water	SM4500 NH3 -F	
240-12605-2	MW-1A(20120622)	D	Water	SM4500 NH3 -F	
240-12605-3	MW-102A(20120622)	D	Water	SM4500 NH3 -F	
Analysis Batch:240-50397					
LCS 240-50305/2-A	Lab Control Sample	D	Water	SM4500 NH3 -F	
MB 240-50305/1-A	Method Blank	D	Water	SM4500 NH3 -F	
240-12605-1	MW-101(20120622)	D	Water	SM4500 NH3 -F	
240-12605-1MS	Matrix Spike	D	Water	SM4500 NH3 -F	
240-12605-1MSD	Matrix Spike Duplicate	D	Water	SM4500 NH3 -F	

Report Basis

D = Dissolved

T = Total

Client: TRW Automotive

Job Number: 240-12605-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-12605-1	MW-101(20120622)	92	101	103	96
240-12605-2	MW-1A(20120622)	95	113	112	99
240-12605-3	MW-102A(20120622)	103	97	91	95
240-12605-4	TRIP BLANK	103	94	86	94
MB 240-49717/5		97	108	104	102
MB 240-49859/5		108	98	91	98
LCS 240-49717/4		110	111	100	103
LCS 240-49859/4		106	100	93	97

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49717

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49717/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/03/2012 1609
Prep Date: 07/03/2012 1609
Leach Date: N/A

Analysis Batch: 240-49717
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC4864.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.441	J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.25		0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49717

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49717/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/03/2012 1609
 Prep Date: 07/03/2012 1609
 Leach Date: N/A

Analysis Batch: 240-49717
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC4864.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	66 - 117
Dibromofluoromethane (Surr)	108	75 - 121
1,2-Dichloroethane-d4 (Surr)	104	63 - 129
Toluene-d8 (Surr)	102	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Lab Control Sample - Batch: 240-49717

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49717/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/03/2012 1546
Prep Date: 07/03/2012 1546
Leach Date: N/A

Analysis Batch: 240-49717
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC4863.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	10.7	107	83 - 112	
Bromobenzene	10.0	8.26	83	76 - 115	
Bromoform	10.0	11.4	114	40 - 131	
Bromomethane	10.0	10.6	106	11 - 185	
Carbon tetrachloride	10.0	9.38	94	66 - 128	
Chlorobenzene	10.0	9.40	94	85 - 110	
Chloroethane	10.0	11.0	110	25 - 153	
Chloroform	10.0	10.6	106	79 - 117	
Chloromethane	10.0	9.35	94	44 - 126	
2-Chlorotoluene	10.0	8.97	90	76 - 116	
4-Chlorotoluene	10.0	9.01	90	77 - 115	
cis-1,2-Dichloroethene	10.0	10.9	109	80 - 113	
cis-1,3-Dichloropropene	10.0	9.02	90	61 - 115	
Dibromomethane	10.0	11.2	112	81 - 120	
1,2-Dichlorobenzene	10.0	9.39	94	81 - 110	
1,3-Dichlorobenzene	10.0	8.79	88	80 - 110	
1,4-Dichlorobenzene	10.0	8.76	88	82 - 110	
Bromodichloromethane	10.0	10.8	108	72 - 121	
Dichlorodifluoromethane	10.0	8.51	85	19 - 129	
1,1-Dichloroethane	10.0	11.6	116	82 - 115	*
1,2-Dichloroethane	10.0	10.4	104	71 - 127	
1,1-Dichloroethene	10.0	10.9	109	78 - 131	
1,2-Dichloropropane	10.0	10.0	100	81 - 115	
1,3-Dichloropropane	10.0	9.80	98	79 - 116	
2,2-Dichloropropane	10.0	9.61	96	50 - 129	
1,1-Dichloropropene	10.0	9.80	98	83 - 114	
Ethylbenzene	10.0	9.66	97	83 - 112	
Hexachlorobutadiene	10.0	7.26	73	36 - 134	
Isopropylbenzene	10.0	10.1	101	75 - 114	
p-Isopropyltoluene	10.0	9.33	93	74 - 120	
Methylene Chloride	10.0	13.1	131	66 - 131	
m-Xylene & p-Xylene	20.0	19.4	97	83 - 113	
Naphthalene	10.0	10.6	106	32 - 141	
n-Butylbenzene	10.0	9.44	94	66 - 125	
N-Propylbenzene	10.0	8.98	90	74 - 121	
o-Xylene	10.0	10.5	105	83 - 113	
sec-Butylbenzene	10.0	9.08	91	70 - 117	
Styrene	10.0	9.96	100	79 - 114	
tert-Butylbenzene	10.0	8.75	88	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	11.6	116	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Lab Control Sample - Batch: 240-49717

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49717/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/03/2012 1546
 Prep Date: 07/03/2012 1546
 Leach Date: N/A

Analysis Batch: 240-49717
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC4863.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	8.84	88	79 - 114	
Toluene	10.0	9.82	98	84 - 111	
trans-1,2-Dichloroethene	10.0	11.2	112	83 - 117	
trans-1,3-Dichloropropene	10.0	10.0	100	58 - 117	
1,2,3-Trichlorobenzene	10.0	9.86	99	54 - 126	
1,2,4-Trichlorobenzene	10.0	8.57	86	48 - 135	
1,1,1-Trichloroethane	10.0	9.85	99	74 - 118	
1,1,2-Trichloroethane	10.0	10.1	101	80 - 112	
Trichloroethene	10.0	10.0	100	76 - 117	
Trichlorofluoromethane	10.0	9.20	92	49 - 157	
1,2,3-Trichloropropane	10.0	9.14	91	73 - 129	
1,2,4-Trimethylbenzene	10.0	9.42	94	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.02	90	72 - 118	
Vinyl chloride	10.0	9.65	97	53 - 127	
Bromochloromethane	10.0	11.0	110	77 - 120	
1,2-Dibromoethane	10.0	10.1	101	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	110		66 - 117		
Dibromofluoromethane (Surr)	111		75 - 121		
1,2-Dichloroethane-d4 (Surr)	100		63 - 129		
Toluene-d8 (Surr)	103		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49859

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49859/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/05/2012 1144
Prep Date: 07/05/2012 1144
Leach Date: N/A

Analysis Batch: 240-49859
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX11
Lab File ID: UXJ5594.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.24		0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49859

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49859/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/05/2012 1144
 Prep Date: 07/05/2012 1144
 Leach Date: N/A

Analysis Batch: 240-49859
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5594.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	108	66 - 117
Dibromofluoromethane (Surr)	98	75 - 121
1,2-Dichloroethane-d4 (Surr)	91	63 - 129
Toluene-d8 (Surr)	98	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Lab Control Sample - Batch: 240-49859

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49859/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/05/2012 1059
 Prep Date: 07/05/2012 1059
 Leach Date: N/A

Analysis Batch: 240-49859
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5592.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.91	99	83 - 112	
Bromobenzene	10.0	10.6	106	76 - 115	
Bromoform	10.0	10.8	108	40 - 131	
Bromomethane	10.0	12.7	127	11 - 185	
Carbon tetrachloride	10.0	9.93	99	66 - 128	
Chlorobenzene	10.0	9.72	97	85 - 110	
Chloroethane	10.0	10.6	106	25 - 153	
Chloroform	10.0	9.55	96	79 - 117	
Chloromethane	10.0	9.22	92	44 - 126	
2-Chlorotoluene	10.0	10.5	105	76 - 116	
4-Chlorotoluene	10.0	10.9	109	77 - 115	
cis-1,2-Dichloroethene	10.0	9.90	99	80 - 113	
cis-1,3-Dichloropropene	10.0	9.60	96	61 - 115	
Dibromomethane	10.0	10.3	103	81 - 120	
1,2-Dichlorobenzene	10.0	9.48	95	81 - 110	
1,3-Dichlorobenzene	10.0	9.77	98	80 - 110	
1,4-Dichlorobenzene	10.0	9.57	96	82 - 110	
Bromodichloromethane	10.0	10.1	101	72 - 121	
Dichlorodifluoromethane	10.0	8.66	87	19 - 129	
1,1-Dichloroethane	10.0	10.1	101	82 - 115	
1,2-Dichloroethane	10.0	9.65	97	71 - 127	
1,1-Dichloroethene	10.0	10.2	102	78 - 131	
1,2-Dichloropropane	10.0	10.0	100	81 - 115	
1,3-Dichloropropane	10.0	9.59	96	79 - 116	
2,2-Dichloropropane	10.0	9.72	97	50 - 129	
1,1-Dichloropropene	10.0	9.75	98	83 - 114	
Ethylbenzene	10.0	9.57	96	83 - 112	
Hexachlorobutadiene	10.0	9.38	94	36 - 134	
Isopropylbenzene	10.0	9.72	97	75 - 114	
p-Isopropyltoluene	10.0	10.6	106	74 - 120	
Methylene Chloride	10.0	11.2	112	66 - 131	
m-Xylene & p-Xylene	20.0	19.1	96	83 - 113	
Naphthalene	10.0	6.51	65	32 - 141	
n-Butylbenzene	10.0	9.44	94	66 - 125	
N-Propylbenzene	10.0	10.5	105	74 - 121	
o-Xylene	10.0	9.71	97	83 - 113	
sec-Butylbenzene	10.0	10.5	105	70 - 117	
Styrene	10.0	9.87	99	79 - 114	
tert-Butylbenzene	10.0	10.5	105	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	10.0	100	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	9.44	94	68 - 118	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Lab Control Sample - Batch: 240-49859

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49859/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/05/2012 1059
 Prep Date: 07/05/2012 1059
 Leach Date: N/A

Analysis Batch: 240-49859
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5592.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	9.48	95	79 - 114	
Toluene	10.0	9.40	94	84 - 111	
trans-1,2-Dichloroethene	10.0	9.86	99	83 - 117	
trans-1,3-Dichloropropene	10.0	9.31	93	58 - 117	
1,2,3-Trichlorobenzene	10.0	7.81	78	54 - 126	
1,2,4-Trichlorobenzene	10.0	8.96	90	48 - 135	
1,1,1-Trichloroethane	10.0	9.51	95	74 - 118	
1,1,2-Trichloroethane	10.0	9.86	99	80 - 112	
Trichloroethene	10.0	10.1	101	76 - 117	
Trichlorofluoromethane	10.0	10.1	101	49 - 157	
1,2,3-Trichloropropane	10.0	10.1	101	73 - 129	
1,2,4-Trimethylbenzene	10.0	10.8	108	76 - 120	
1,3,5-Trimethylbenzene	10.0	10.8	108	72 - 118	
Vinyl chloride	10.0	9.77	98	53 - 127	
Bromochloromethane	10.0	9.74	97	77 - 120	
1,2-Dibromoethane	10.0	9.39	94	79 - 113	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	106	66 - 117
Dibromofluoromethane (Surr)	100	75 - 121
1,2-Dichloroethane-d4 (Surr)	93	63 - 129
Toluene-d8 (Surr)	97	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49161

Lab Sample ID: MB 240-49161/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1634
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	200	U	0.67	200
Boron	200	U	34	200
Calcium	5000	U	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	5000	U	34	5000
Manganese	0.515	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	20	U	5.0	20
Lithium	4.53	J	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-49161

Lab Sample ID: LCS 240-49161/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1638
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2260	113	80 - 120	
Boron	1000	1130	113	80 - 120	
Calcium	50000	52100	104	80 - 120	
Chromium	200	207	104	80 - 120	
Iron	1000	1070	107	80 - 120	
Potassium	50000	52700	105	80 - 120	
Magnesium	50000	50000	100	80 - 120	
Manganese	500	529	106	80 - 120	
Sodium	50000	53700	107	80 - 120	
Nickel	500	512	102	80 - 120	
Lead	500	512	102	80 - 120	
Zinc	500	518	104	80 - 120	
Lithium	1000	1050	105	80 - 120	
SiO2, Silica	2140	2430	114	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49871

Lab Sample ID: MB 240-49868/1-B
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/06/2012 1623
 Prep Date: 07/05/2012 0937
 Leach Date: N/A

Analysis Batch: 240-50182
 Prep Batch: 240-49871
 Leach Batch: N/A
 Units: ug/L

Method: 6010B Preparation: 3005A Dissolved

Instrument ID: I9
 Lab File ID: I9070612A.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	0.842	J	0.67	200
Boron	200	U	34	200
Calcium	207	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	54.8	J	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	7.48	J	5.0	50
Lithium	50	U	1.8	50
SiO2, Silica	24.3	J	14	1100

Lab Control Sample - Batch: 240-49871

Lab Sample ID: LCS 240-49871/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/06/2012 1627
 Prep Date: 07/05/2012 0937
 Leach Date: N/A

Analysis Batch: 240-50182
 Prep Batch: 240-49871
 Leach Batch: N/A
 Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
 Lab File ID: I9070612A.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2070	103	80 - 120	
Boron	1000	1040	104	80 - 120	
Calcium	50000	51500	103	80 - 120	
Chromium	200	196	98	80 - 120	
Iron	1000	1040	104	80 - 120	
Potassium	50000	50700	101	80 - 120	
Magnesium	50000	50500	101	80 - 120	
Manganese	500	497	99	80 - 120	
Sodium	50000	51400	103	80 - 120	
Nickel	500	482	96	80 - 120	
Lead	500	483	97	80 - 120	
Zinc	500	504	101	80 - 120	
Lithium	1000	1000	100	80 - 120	
SiO2, Silica	2140	2260	106	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49161

Lab Sample ID: MB 240-49161/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 1404
 Prep Date: 06/28/2012 0651
 Leach Date: N/A

Analysis Batch: 240-49560
 Prep Batch: 240-49161
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
 Lab File ID: I8062912A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	10	U	0.33	10

Lab Control Sample - Batch: 240-49161

Lab Sample ID: LCS 240-49161/3-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/29/2012 1422
 Prep Date: 06/28/2012 0651
 Leach Date: N/A

Analysis Batch: 240-49560
 Prep Batch: 240-49161
 Leach Batch: N/A
 Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
 Lab File ID: I8062912A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	925	92	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49878

Lab Sample ID: MB 240-49868/1-C
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/06/2012 0925
Prep Date: 07/05/2012 0946
Leach Date: N/A

Analysis Batch: 240-50170
Prep Batch: 240-49878
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Dissolved

Instrument ID: I8
Lab File ID: I8070612A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.679	J	0.33	10

Lab Control Sample - Batch: 240-49878

Lab Sample ID: LCS 240-49878/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/06/2012 0930
Prep Date: 07/05/2012 0946
Leach Date: N/A

Analysis Batch: 240-50170
Prep Batch: 240-49878
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
Lab File ID: I8070612A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	865	86	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-48696

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48696/5	Analysis Batch:	240-48696	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0011059-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1202	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-48696

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48696/6	Analysis Batch:	240-48696	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0011059-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1219	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	48.9	98	90 - 110	
Fluoride-Dissolved	2.50	2.47	99	90 - 110	
Bromide-Dissolved	10.0	9.56	96	90 - 110	
Sulfate-Dissolved	50.0	47.7	95	90 - 110	

Matrix Spike - Batch: 240-48696

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12605-2	Analysis Batch:	240-48696	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	10240-0011059-010.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1325	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	6.3		50.0	60.2	108	80 - 120	
Fluoride-Dissolved	0.042	J	2.50	3.02	119	80 - 120	
Bromide-Dissolved	0.50	U	10.0	10.6	106	80 - 120	
Sulfate-Dissolved	6.2		50.0	58.5	105	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-48697

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48697/5	Analysis Batch:	240-48697	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0011059-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1202	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10

Lab Control Sample - Batch: 240-48697

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48697/6	Analysis Batch:	240-48697	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0011059-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1219	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.38	95	90 - 110	
Nitrate as N-Dissolved	2.50	2.31	92	90 - 110	

Matrix Spike - Batch: 240-48697

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12605-2	Analysis Batch:	240-48697	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	10240-0011059-010.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1325	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	0.10 U	2.50	2.68	107	80 - 120	
Nitrate as N-Dissolved	1.6	2.50	4.21	104	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-48902

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48902/4	Analysis Batch:	240-48902	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	4240-0011105-004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/26/2012 1248	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-48902

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48902/5	Analysis Batch:	240-48902	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0011105-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/26/2012 1306	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Orthophosphate-Dissolved	2.50	2.61	104	90 - 110	

Matrix Spike - Batch: 240-48902

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12605-1	Analysis Batch:	240-48902	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	7240-0011105-007.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/26/2012 1341	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Orthophosphate-Dissolved	0.19 J	2.50	4.72	181	80 - 120	F

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-50113

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-50108/1-A	Analysis Batch:	240-50113	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	14240-0011394-015.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2012 1923	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-50113

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-50108/2-A	Analysis Batch:	240-50113	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	15240-0011394-016.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2012 1941	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	51.4	103	90 - 110	
Fluoride-Dissolved	2.50	2.44	98	90 - 110	
Bromide-Dissolved	10.0	9.73	97	90 - 110	
Sulfate-Dissolved	50.0	49.1	98	90 - 110	

Matrix Spike - Batch: 240-50113

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12605-1	Analysis Batch:	240-50113	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	17240-0011394-018.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2012 2015	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	7.4	50.0	63.8	113	80 - 120	
Fluoride-Dissolved	0.043 J	2.50	2.76	109	80 - 120	
Bromide-Dissolved	0.088 J	10.0	10.7	106	80 - 120	
Sulfate-Dissolved	7.2	50.0	59.8	105	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49573

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-49573/5	Analysis Batch:	240-49573	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062912alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/29/2012 1211	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-49573

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-49573/4	Analysis Batch:	240-49573	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	062912alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	06/29/2012 1205	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	79.4	82.5	104	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49870

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-49870/5	Analysis Batch:	240-49870	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070312alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	07/03/2012 1119	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	5.0	U	2.7	5.0
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-49870

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-49870/4	Analysis Batch:	240-49870	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070312alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	07/03/2012 1113	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	79.4	82.7	104	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49375

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Lab Sample ID: MB 240-49375/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0745
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as PO4-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-49375

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Lab Sample ID: LCS 240-49375/11-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0746
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as PO4-Dissolved	5.50	5.83	106	53 - 134	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-49375

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Dissolved

MS Lab Sample ID: 240-12605-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0747
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-12605-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0748
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Phosphorus as PO4-Dissolved	103	102	10 - 199	2	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49419

Lab Sample ID: MB 240-49413/1-B
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0745
Leach Date: N/A

Analysis Batch: 240-49478
Prep Batch: 240-49419
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

Instrument ID: BARNEY
Lab File ID: TP062912A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as PO4-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-49419

Lab Sample ID: LCS 240-49413/2-B
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0748
Leach Date: N/A

Analysis Batch: 240-49478
Prep Batch: 240-49419
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

Instrument ID: BARNEY
Lab File ID: TP062912A.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as PO4-Dissolved	5.50	5.79	105	53 - 134	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-49419

MS Lab Sample ID: 240-12605-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0754
Leach Date: N/A

Analysis Batch: 240-49478
Prep Batch: 240-49419
Leach Batch: N/A

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

Instrument ID: BARNEY
Lab File ID: TP062912A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-12605-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0757
Leach Date: N/A

Analysis Batch: 240-49478
Prep Batch: 240-49419
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP062912A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Phosphorus as PO4-Dissolved	109	110	10 - 199	1	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-50241

Lab Sample ID: MB 240-50241/7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/09/2012 0728
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-50241
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Method: SM4500 NH3 -F Preparation: N/A

Instrument ID: DAVE
Lab File ID: 070912.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.0515	J	0.035	0.20

Lab Control Sample - Batch: 240-50241

Lab Sample ID: LCS 240-50241/8
Client Matrix: Water
Dilution: 5.0
Analysis Date: 07/09/2012 0729
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-50241
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Method: SM4500 NH3 -F Preparation: N/A

Instrument ID: DAVE
Lab File ID: 070912.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	13.9	14.0	100	85 - 114	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-50397

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	MB 240-50305/1-A	Analysis Batch:	240-50397	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	071012.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/10/2012 1254	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.0825	J	0.035	0.20

Lab Control Sample - Batch: 240-50397

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	LCS 240-50305/2-A	Analysis Batch:	240-50397	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	071012.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/10/2012 1254	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	13.9	12.9	93	85 - 114	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-50397

Method: SM4500 NH3 -F
Preparation: N/A

MS Lab Sample ID:	240-12605-1	Analysis Batch:	240-50397	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	071012.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/10/2012 1305			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-12605-1	Analysis Batch:	240-50397	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	071012.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/10/2012 1308			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia-Dissolved	106	111	75 - 125	4	20		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Regulatory program:

☐ Other

TestAmerica Laboratories, Inc.

07/12/2012

TestAmerica North Canton Sample Receipt Form/Narrative

Login #: 12605

Client: Arcadis Site Name: By: (Signature)

Cooler Received on: 6/23/12 Opened on: 6/23/12
 FedEx: ☒ Grd: ☒ UPS: ☐ FAS: ☐ Stetson: ☐ Client Drop Off: ☐ TestAmerica Courier: ☐ Other: ☐

TestAmerica Cooler #: A635 Foam Box: ☐ Client Cooler: ☐ Box: ☐ Other: ☐
 Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None

- Cooler temperature upon receipt

IR GUN# 1 (CF -2°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C
IR GUN# 4G (CF -1°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C
IR GUN# 5G (CF -1°C)	Observed Sample Temp. 1.8 °C	Corrected Sample Temp. 0.8 °C
IR GUN# 6Y (CF -2°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C
- Were custody seals on the outside of the cooler(s)? If Yes Quantity 1

Yes	No
Yes	No NA
Yes	No
- Shippers' packing slip attached to the cooler(s)?

Yes	No
-----	----
- Did custody papers accompany the sample(s)?

Yes	No
-----	----
- Were the custody papers relinquished & signed in the appropriate place?

Yes	No
-----	----
- Did all bottles arrive in good condition (Unbroken)?

Yes	No
-----	----
- Could all bottle labels be reconciled with the COC?

Yes	No
-----	----
- Were correct bottle(s) used for the test(s) indicated?

Yes	No
-----	----
- Sufficient quantity received to perform indicated analyses?

Yes	No
-----	----
- Were sample(s) at the correct pH upon receipt?

Yes	No NA
-----	-------
- Were VOAs on the COC?

Yes	No
-----	----
- Were air bubbles >6 mm in any VOA vials?

Yes	No NA
-----	-------
- Was a trip blank present in the cooler(s)?

Yes	No
-----	----

☐ Multiple on Back

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
 Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO₃; Sulfuric Acid Lot# 041911-H₂SO₄; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)?

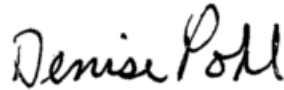
[illegible]

ANALYTICAL REPORT

Job Number: 240-12605-1

Job Description: Oak Grove Village

For:
TRW Automotive
Tech 2
12025 Tech Center Drive
Livonia, MI 48150
Attention: Paul Jack



Approved for release.
Denise Pohl
Project Manager II
7/12/2012 2:17 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
07/12/2012

cc: Mr. John Shonfelt

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Laboratories, Inc.

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CASE NARRATIVE

Client: TRW Automotive

Project: Oak Grove Village

Report Number: 240-12605-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/23/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.8 C.

Sample MW-101(20120622) (240-12605-1), was not analyzed on a lab filtered sample for Nitrate, Nitrite and o-Phosphate in accordance with EPA SW-846 Method 9056A, as the instructions were not clear on the chain of custody for the lab to filter the sample and these analysis have a short holding time. The other analysis with longer holding time were lab filtered.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2), MW-102A(20120622) (240-12605-3) and TRIP BLANK (240-12605-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/03/2012 and 07/05/2012.

Methylene Chloride was detected in method blank MB 240-49717/5 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Hexachlorobutadiene was detected in method blank MB 240-49717/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Methylene Chloride was detected in method blank MB 240-49859/5 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

1,1-Dichloroethane failed the recovery criteria high for LCS 240-49717/4. Refer to the QC report for details.

Method(s) 8260B: The laboratory control sample (LCS) for batch 49717 exceeded control limits for the following analytes: 1,1-Dichloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/28/2012 and 07/05/2012 and analyzed on 06/29/2012, 07/07/2012 and 07/09/2012.

Several analytes were detected in method blank MB 240-49868/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Lithium and Manganese were detected in method blank MB 240-49161/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/28/2012 and 07/05/2012 and analyzed on 06/29/2012 and 07/06/2012.

Strontium was detected in method blank MB 240-49868/1-C at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

ALKALINITY

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/29/2012 and 07/03/2012.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED AMMONIA

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved ammonia in accordance with SM 4500 NH3 F. The samples were analyzed on 07/09/2012 and 07/10/2012.

Ammonia was detected in method blank MB 240-50305/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Ammonia was detected in method blank MB 240-50241/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the ammonia analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED PHOSPHORUS

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 06/29/2012.

No difficulties were encountered during the phosphorus analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/25/2012 and 06/26/2012.

Method 9056A: The following samples were analyzed outside analytical holding time due to instrument failure: MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3).

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

ANIONS

Sample MW-101(20120622) (240-12605-1) was analyzed for anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/25/2012 and 06/26/2012.

Orthophosphate failed the recovery criteria high for the MS of sample MW-101(20120622)MS (240-12605-1) in batch 240-48902.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Method 9056A: The following sample was analyzed outside analytical holding time due to instrument failure: MW-101(20120622) (240-12605-1).

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED ANIONS

Samples MW-101(20120622) (240-12605-1), MW-1A(20120622) (240-12605-2) and MW-102A(20120622) (240-12605-3) were analyzed for dissolved anions in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 06/25/2012 and 07/06/2012.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: A3UX11 Analysis Batch Number: 47806Lab Sample ID: STD8260 240-47806/9 IC Client Sample ID: _____Date Analyzed: 06/19/12 15:49 Lab File ID: UXJ5157.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	2.87	Split Peak	evansle	06/20/12 08:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: A3UX11 Analysis Batch Number: 49859Lab Sample ID: CCVIS 240-49859/2 Client Sample ID: _____Date Analyzed: 07/05/12 10:13 Lab File ID: UXJ5590.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.74	Split Peak	evansle	07/05/12 10:35

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: GARFUNKEL Analysis Batch Number: 45592Lab Sample ID: STD1 240-45592/3 IC Client Sample ID: _____Date Analyzed: 05/30/12 06:59 Lab File ID: 3240-0010344-003.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Orthophosphate	9.91	Baseline Event	grossman1	05/30/12 10:42

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: GARFUNKEL Analysis Batch Number: 48902Lab Sample ID: 240-12605-3 Client Sample ID: MW-102A(20120622)Date Analyzed: 06/26/12 14:33 Lab File ID: 10240-0011105-010.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Orthophosphate	9.29	Baseline Event	grossman1	06/27/12 07:57

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: GARFUNKEL Analysis Batch Number: 49129Lab Sample ID: STD1 240-49129/3 IC Client Sample ID: _____Date Analyzed: 06/28/12 08:55 Lab File ID: 3240-0011158-003.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.94	Baseline Event	grossman1	06/28/12 12:40

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: GARFUNKEL Analysis Batch Number: 50113Lab Sample ID: 240-12605-1 Client Sample ID: MW-101(20120622)Date Analyzed: 07/06/12 19:58 Lab File ID: 16240-0011394-017.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.85	Baseline Event	burnsj	07/09/12 10:12

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 48118Lab Sample ID: STD1 240-48118/3 IC Client Sample ID: _____Date Analyzed: 06/22/12 17:01 Lab File ID: 3240-0010901-003.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Orthophosphate	8.09	Baseline Event	grossman1	06/26/12 08:37

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 48696Lab Sample ID: 240-12605-3 Client Sample ID: MW-102A(20120622)Date Analyzed: 06/25/12 12:52 Lab File ID: 8240-0011059-008.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.61	Baseline Event	grossmanl	06/26/12 10:02

Lab Sample ID: 240-12605-2 Client Sample ID: MW-1A(20120622)Date Analyzed: 06/25/12 13:08 Lab File ID: 9240-0011059-009.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.61	Baseline Event	grossmanl	06/26/12 10:02

SAMPLE SUMMARY

Client: TRW Automotive

Job Number: 240-12605-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-12605-1	MW-101(20120622)	Water	06/22/2012 0955	06/23/2012 0945
240-12605-2	MW-1A(20120622)	Water	06/21/2012 1705	06/23/2012 0945
240-12605-3	MW-102A(20120622)	Water	06/22/2012 1215	06/23/2012 0945
240-12605-4TB	TRIP BLANK	Water	06/22/2012 0000	06/23/2012 0945

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12605-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12605-1	MW-101(20120622)					
cis-1,2-Dichloroethene		0.58	J	1.0	ug/L	8260B
Dichlorodifluoromethane		2.8		1.0	ug/L	8260B
1,1-Dichloroethane		0.32	J *	1.0	ug/L	8260B
Dichlorofluoromethane		20		2.0	ug/L	8260B
Tetrachloroethene		0.33	J	1.0	ug/L	8260B
Trichloroethene		1.8		1.0	ug/L	8260B
Trichlorofluoromethane		18		1.0	ug/L	8260B
Nitrate as N		0.82	H	0.10	mg/L	9056A
Orthophosphate		0.19	J H	0.50	mg/L	9056A
Bicarbonate Alkalinity as CaCO3		260		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		55	J B	200	ug/L	6010B
Calcium		57000	B	5000	ug/L	6010B
Potassium		1900	J	5000	ug/L	6010B
Magnesium		32000	B	5000	ug/L	6010B
Sodium		4900	J	5000	ug/L	6010B
Zinc		27	J B	50	ug/L	6010B
Lithium		11	J	50	ug/L	6010B
SiO2, Silica		9000	B	1100	ug/L	6010B
Strontium		52	B	10	ug/L	6020
Chloride-Dissolved		7.4		1.0	mg/L	9056A
Fluoride-Dissolved		0.043	J	1.0	mg/L	9056A
Bromide-Dissolved		0.088	J	0.50	mg/L	9056A
Sulfate-Dissolved		7.2		1.0	mg/L	9056A
Ammonia-Dissolved		0.082	J B	0.20	mg/L	SM4500 NH3 -F

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12605-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12605-2	MW-1A(20120622)					
cis-1,2-Dichloroethene		0.55	J	1.0	ug/L	8260B
Dichlorodifluoromethane		0.75	J	1.0	ug/L	8260B
1,1-Dichloroethane		0.65	J *	1.0	ug/L	8260B
Dichlorofluoromethane		23		2.0	ug/L	8260B
Trichloroethene		0.88	J	1.0	ug/L	8260B
Trichlorofluoromethane		5.0		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		280		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		120	J	200	ug/L	6010B
Boron		43	J	200	ug/L	6010B
Calcium		62000		5000	ug/L	6010B
Potassium		2700	J	5000	ug/L	6010B
Magnesium		32000		5000	ug/L	6010B
Manganese		0.81	J B	15	ug/L	6010B
Sodium		5600		5000	ug/L	6010B
Zinc		5.5	J	20	ug/L	6010B
SiO2, Silica		11000		1100	ug/L	6010B
Strontium		91		10	ug/L	6020
Chloride-Dissolved		6.3		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.6	H	0.10	mg/L	9056A
Fluoride-Dissolved		0.042	J	1.0	mg/L	9056A
Sulfate-Dissolved		6.2		1.0	mg/L	9056A

EXECUTIVE SUMMARY - Detections

Client: TRW Automotive

Job Number: 240-12605-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-12605-3	MW-102A(20120622)					
Dichlorodifluoromethane		1.5		1.0	ug/L	8260B
1,1-Dichloroethane		1.3		1.0	ug/L	8260B
Dichlorofluoromethane		17		2.0	ug/L	8260B
Trichloroethene		0.81	J	1.0	ug/L	8260B
Trichlorofluoromethane		9.4		1.0	ug/L	8260B
Bicarbonate Alkalinity as CaCO3		160		5.0	mg/L	SM 2320B
<i>Dissolved</i>						
Barium		50	J	200	ug/L	6010B
Calcium		39000		5000	ug/L	6010B
Potassium		830	J	5000	ug/L	6010B
Magnesium		21000		5000	ug/L	6010B
Sodium		2800	J	5000	ug/L	6010B
Lithium		1.8	J B	50	ug/L	6010B
SiO2, Silica		10000		1100	ug/L	6010B
Strontium		41		10	ug/L	6020
Chloride-Dissolved		5.3		1.0	mg/L	9056A
Nitrate as N-Dissolved		1.2	H	0.10	mg/L	9056A
Fluoride-Dissolved		0.050	J	1.0	mg/L	9056A
Orthophosphate-Dissolved		0.054	J H	0.50	mg/L	9056A
Sulfate-Dissolved		12		1.0	mg/L	9056A
Ammonia-Dissolved		0.049	J B	0.20	mg/L	SM4500 NH3 -F
240-12605-4TB	TRIP BLANK					
Methylene Chloride		1.7	B	1.0	ug/L	8260B

METHOD SUMMARY

Client: TRW Automotive

Job Number: 240-12605-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC/MS)		TAL NC	SW846 8260B	
Purge and Trap		TAL NC		SW846 5030B
Metals (ICP)		TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Metals (ICP)		TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration		TAL NC		FILTRATION
Metals (ICP/MS)		TAL NC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration, Field				FIELD_FLTRD
Metals (ICP/MS)		TAL NC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals		TAL NC		SW846 3005A
Sample Filtration		TAL NC		FILTRATION
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Sample Filtration, Field				FIELD_FLTRD
Anions, Ion Chromatography		TAL NC	SW846 9056A	
Sample Filtration		TAL NC		Filtration
Alkalinity		TAL NC	SM SM 2320B	
Phosphorus		TAL NC	SM SM 4500 P E	
Phosphorus, Total		TAL NC		MCAWW 365.2/365.3/365
Sample Filtration, Field				FIELD_FLTRD
Phosphorus		TAL NC	SM SM 4500 P E	
Phosphorus, Total		TAL NC		MCAWW 365.2/365.3/365
Sample Filtration		TAL NC		Filtration
Ammonia		TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration, Field				FIELD_FLTRD
Ammonia		TAL NC	SM18 SM4500 NH3 -F	
Sample Filtration		TAL NC		Filtration

Lab References:

TAL NC = TestAmerica Canton

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TRW Automotive

Job Number: 240-12605-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LE
SW846 6010B	Musselman, Natalie J	NJM
SW846 6020	Davies, Brian	BD
SW846 9056A	Burns, Jill	JB
SW846 9056A	Grossman, Lucas	LG
SM SM 2320B	Burns, Jill	JB
SM SM 4500 P E	Harshman, Tom	TH
SM18 SM4500 NH3 -F	Kuhle, Julie	JK

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4865.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1632			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.58	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	2.8		0.31	1.0
1,1-Dichloroethane	0.32	J *	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	20		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	0.33	J	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4865.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1632			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.8		0.17	1.0
Trichlorofluoromethane	18		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	103		63 - 129
Toluene-d8 (Surr)	96		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4866.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1655			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1655				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	0.55	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	0.75	J	0.31	1.0
1,1-Dichloroethane	0.65	J *	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	23		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49717	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC4866.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/03/2012 1655			Final Weight/Volume:	5 mL
Prep Date:	07/03/2012 1655				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.88	J	0.17	1.0
Trichlorofluoromethane	5.0		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	113		75 - 121
1,2-Dichloroethane-d4 (Surr)	112		63 - 129
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49859	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5599.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2012 1338			Final Weight/Volume:	5 mL
Prep Date:	07/05/2012 1338				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.5		0.31	1.0
1,1-Dichloroethane	1.3		0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	17		0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49859	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5599.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2012 1338			Final Weight/Volume:	5 mL
Prep Date:	07/05/2012 1338				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	0.81	J	0.17	1.0
Trichlorofluoromethane	9.4		0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12605-4TB

Client Matrix: Water

Date Sampled: 06/22/2012 0000

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 240-49859

Instrument ID: A3UX11

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: UXJ5600.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/05/2012 1400

Final Weight/Volume: 5 mL

Prep Date: 07/05/2012 1400

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.7	B	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.19	1.0

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-12605-4TB

Date Sampled: 06/22/2012 0000

Client Matrix: Water

Date Received: 06/23/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-49859	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ5600.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2012 1400			Final Weight/Volume:	5 mL
Prep Date:	07/05/2012 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	94		75 - 121
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-50182	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49871	Lab File ID:	I9070612A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/07/2012 0232			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Boron	200	U	34	200
Barium	55	J B	0.67	200
Calcium	57000	B	130	5000
Chromium	5.0	U	2.2	5.0
Potassium	1900	J	72	5000
Manganese	15	U	0.41	15
Nickel	40	U	3.2	40
Lead	3.0	U	1.9	3.0
Zinc	27	J B	5.0	50
Lithium	11	J	1.8	50
SiO2, Silica	9000	B	14	1100

Analysis Method:	6010B	Analysis Batch:	240-50312	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49871	Lab File ID:	I9070912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/09/2012 1853			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	100	U	81	100
Magnesium	32000	B	34	5000
Sodium	4900	J	590	5000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-50170	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49878	Lab File ID:	I8070612A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/06/2012 1312			Final Weight/Volume:	50 mL
Prep Date:	07/05/2012 1003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	52	B	0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1740			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	120	J	0.67	200
Boron	43	J	34	200
Calcium	62000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	2700	J	72	5000
Magnesium	32000		34	5000
Manganese	0.81	J B	0.41	15
Sodium	5600		590	5000
Nickel	40	U	3.2	40
Zinc	5.5	J	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	11000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1600			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	91		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-49561	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I9062912A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1744			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	50	J	0.67	200
Boron	200	U	34	200
Calcium	39000		130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	830	J	72	5000
Magnesium	21000		34	5000
Manganese	15	U	0.41	15
Sodium	2800	J	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	1.8	J B	1.8	50
SiO2, Silica	10000		14	1100

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-49560	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-49161	Lab File ID:	I8062912A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/29/2012 1605			Final Weight/Volume:	50 mL
Prep Date:	06/28/2012 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Strontium	41		0.33	10

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Date Sampled: 06/22/2012 0955

Client Matrix: Water

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	7.4		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-50113		Analysis Date: 07/06/2012 1958					
Nitrite as N	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48697		Analysis Date: 06/25/2012 1235					
Fluoride-Dissolved	0.043	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-50113		Analysis Date: 07/06/2012 1958					
Nitrate as N	0.82	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48697		Analysis Date: 06/25/2012 1235					
Bromide-Dissolved	0.088	J	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-50113		Analysis Date: 07/06/2012 1958					
Orthophosphate	0.19	J H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48902		Analysis Date: 06/26/2012 1323					
Sulfate-Dissolved	7.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-50113		Analysis Date: 07/06/2012 1958					
Bicarbonate Alkalinity as CaCO3	260		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573		Analysis Date: 06/29/2012 1645					
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573		Analysis Date: 06/29/2012 1645					
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49478		Analysis Date: 06/29/2012 1604					
Prep Batch: 240-49419		Prep Date: 06/29/2012 0751					
Ammonia-Dissolved	0.082	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-50397		Analysis Date: 07/10/2012 1256					

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry

Client Sample ID: MW-1A(20120622)

Lab Sample ID: 240-12605-2

Date Sampled: 06/21/2012 1705

Client Matrix: Water

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	6.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1308						
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1308						
Fluoride-Dissolved	0.042	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1308						
Nitrate as N-Dissolved	1.6	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1308						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1308						
Orthophosphate-Dissolved	0.50	U H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48902	Analysis Date: 06/26/2012 1416						
Sulfate-Dissolved	6.2		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1308						
Bicarbonate Alkalinity as CaCO3	280		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1656						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49573	Analysis Date: 06/29/2012 1656						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0746						
Ammonia-Dissolved	0.20	U	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-50241	Analysis Date: 07/09/2012 0835						

Analytical Data

Client: TRW Automotive

Job Number: 240-12605-1

General Chemistry

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Date Sampled: 06/22/2012 1215

Client Matrix: Water

Date Received: 06/23/2012 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Dissolved	5.3		mg/L	0.10	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1252						
Nitrite as N-Dissolved	0.10	U H	mg/L	0.012	0.10	1.0	9056A
Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1252						
Fluoride-Dissolved	0.050	J	mg/L	0.015	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1252						
Nitrate as N-Dissolved	1.2	H	mg/L	0.023	0.10	1.0	9056A
Analysis Batch: 240-48697	Analysis Date: 06/25/2012 1252						
Bromide-Dissolved	0.50	U	mg/L	0.081	0.50	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1252						
Orthophosphate-Dissolved	0.054	J H	mg/L	0.044	0.50	1.0	9056A
Analysis Batch: 240-48902	Analysis Date: 06/26/2012 1433						
Sulfate-Dissolved	12		mg/L	0.12	1.0	1.0	9056A
Analysis Batch: 240-48696	Analysis Date: 06/25/2012 1252						
Bicarbonate Alkalinity as CaCO3	160		mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49870	Analysis Date: 07/03/2012 1643						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	2.7	5.0	1.0	SM 2320B
Analysis Batch: 240-49870	Analysis Date: 07/03/2012 1643						
Total Phosphorus as PO4-Dissolved	0.10	U	mg/L	0.033	0.10	1.0	SM 4500 P E
Analysis Batch: 240-49474	Analysis Date: 06/29/2012 1424						
Prep Batch: 240-49375	Prep Date: 06/29/2012 0748						
Ammonia-Dissolved	0.049	J B	mg/L	0.035	0.20	1.0	SM4500 NH3 -F
Analysis Batch: 240-50241	Analysis Date: 07/09/2012 0835						

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-12605-1	MW-101(20120622)	101	103	96	92
240-12605-2	MW-1A(20120622)	113	112	99	95
240-12605-3	MW-102A(20120622)	97	91	95	103
240-12605-4	TRIP BLANK	94	86	94	103
MB 240-49717/5		108	104	102	97
MB 240-49859/5		98	91	98	108
LCS 240-49717/4		111	100	103	110
LCS 240-49859/4		100	93	97	106

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115
BFB = 4-Bromofluorobenzene (Surr)	66-117

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49717

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49717/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/03/2012 1609
Prep Date: 07/03/2012 1609
Leach Date: N/A

Analysis Batch: 240-49717
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC4864.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	0.441	J	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.25		0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49717

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49717/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/03/2012 1609
 Prep Date: 07/03/2012 1609
 Leach Date: N/A

Analysis Batch: 240-49717
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC4864.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	66 - 117
Dibromofluoromethane (Surr)	108	75 - 121
1,2-Dichloroethane-d4 (Surr)	104	63 - 129
Toluene-d8 (Surr)	102	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Lab Control Sample - Batch: 240-49717

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49717/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/03/2012 1546
Prep Date: 07/03/2012 1546
Leach Date: N/A

Analysis Batch: 240-49717
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC4863.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	10.7	107	83 - 112	
Bromobenzene	10.0	8.26	83	76 - 115	
Bromoform	10.0	11.4	114	40 - 131	
Bromomethane	10.0	10.6	106	11 - 185	
Carbon tetrachloride	10.0	9.38	94	66 - 128	
Chlorobenzene	10.0	9.40	94	85 - 110	
Chloroethane	10.0	11.0	110	25 - 153	
Chloroform	10.0	10.6	106	79 - 117	
Chloromethane	10.0	9.35	94	44 - 126	
2-Chlorotoluene	10.0	8.97	90	76 - 116	
4-Chlorotoluene	10.0	9.01	90	77 - 115	
cis-1,2-Dichloroethene	10.0	10.9	109	80 - 113	
cis-1,3-Dichloropropene	10.0	9.02	90	61 - 115	
Dibromomethane	10.0	11.2	112	81 - 120	
1,2-Dichlorobenzene	10.0	9.39	94	81 - 110	
1,3-Dichlorobenzene	10.0	8.79	88	80 - 110	
1,4-Dichlorobenzene	10.0	8.76	88	82 - 110	
Bromodichloromethane	10.0	10.8	108	72 - 121	
Dichlorodifluoromethane	10.0	8.51	85	19 - 129	
1,1-Dichloroethane	10.0	11.6	116	82 - 115	*
1,2-Dichloroethane	10.0	10.4	104	71 - 127	
1,1-Dichloroethene	10.0	10.9	109	78 - 131	
1,2-Dichloropropane	10.0	10.0	100	81 - 115	
1,3-Dichloropropane	10.0	9.80	98	79 - 116	
2,2-Dichloropropane	10.0	9.61	96	50 - 129	
1,1-Dichloropropene	10.0	9.80	98	83 - 114	
Ethylbenzene	10.0	9.66	97	83 - 112	
Hexachlorobutadiene	10.0	7.26	73	36 - 134	
Isopropylbenzene	10.0	10.1	101	75 - 114	
p-Isopropyltoluene	10.0	9.33	93	74 - 120	
Methylene Chloride	10.0	13.1	131	66 - 131	
m-Xylene & p-Xylene	20.0	19.4	97	83 - 113	
Naphthalene	10.0	10.6	106	32 - 141	
n-Butylbenzene	10.0	9.44	94	66 - 125	
N-Propylbenzene	10.0	8.98	90	74 - 121	
o-Xylene	10.0	10.5	105	83 - 113	
sec-Butylbenzene	10.0	9.08	91	70 - 117	
Styrene	10.0	9.96	100	79 - 114	
tert-Butylbenzene	10.0	8.75	88	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	11.6	116	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	68 - 118	
Tetrachloroethene	10.0	8.84	88	79 - 114	
Toluene	10.0	9.82	98	84 - 111	
trans-1,2-Dichloroethene	10.0	11.2	112	83 - 117	
trans-1,3-Dichloropropene	10.0	10.0	100	58 - 117	
1,2,3-Trichlorobenzene	10.0	9.86	99	54 - 126	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Lab Control Sample - Batch: 240-49717

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49717/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/03/2012 1546
 Prep Date: 07/03/2012 1546
 Leach Date: N/A

Analysis Batch: 240-49717
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX15
 Lab File ID: UXC4863.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4-Trichlorobenzene	10.0	8.57	86	48 - 135	
1,1,1-Trichloroethane	10.0	9.85	99	74 - 118	
1,1,2-Trichloroethane	10.0	10.1	101	80 - 112	
Trichloroethene	10.0	10.0	100	76 - 117	
Trichlorofluoromethane	10.0	9.20	92	49 - 157	
1,2,3-Trichloropropane	10.0	9.14	91	73 - 129	
1,2,4-Trimethylbenzene	10.0	9.42	94	76 - 120	
1,3,5-Trimethylbenzene	10.0	9.02	90	72 - 118	
Vinyl chloride	10.0	9.65	97	53 - 127	
Bromochloromethane	10.0	11.0	110	77 - 120	
1,2-Dibromoethane	10.0	10.1	101	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	110		66 - 117		
Dibromofluoromethane (Surr)	111		75 - 121		
1,2-Dichloroethane-d4 (Surr)	100		63 - 129		
Toluene-d8 (Surr)	103		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49859

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 240-49859/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/05/2012 1144
Prep Date: 07/05/2012 1144
Leach Date: N/A

Analysis Batch: 240-49859
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX11
Lab File ID: UXJ5594.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon tetrachloride	1.0	U	0.13	1.0
Chlorobenzene	1.0	U	0.15	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Chloroethane	1.0	U	0.29	1.0
Chloroform	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
2-Chlorotoluene	1.0	U	0.11	1.0
4-Chlorotoluene	1.0	U	0.18	1.0
cis-1,2-Dichloroethene	1.0	U	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromomethane	1.0	U	0.28	1.0
1,2-Dichlorobenzene	1.0	U	0.13	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.13	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.15	1.0
1,2-Dichloroethane	1.0	U	0.22	1.0
1,1-Dichloroethene	1.0	U	0.19	1.0
Dichlorofluoromethane	2.0	U	0.42	2.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichloropropane	1.0	U	0.16	1.0
2,2-Dichloropropane	1.0	U	0.13	1.0
1,1-Dichloropropene	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.17	1.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
Methylene Chloride	1.24		0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
N-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
tert-Butylbenzene	1.0	U	0.13	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.23	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	1.0	U	0.13	1.0

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49859

Method: 8260B

Preparation: 5030B

Lab Sample ID:	MB 240-49859/5	Analysis Batch:	240-49859	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5594.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2012 1144	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/05/2012 1144				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
1,2,3-Trichlorobenzene	1.0	U	0.17	1.0
1,2,4-Trichlorobenzene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.27	1.0
Trichloroethene	1.0	U	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
1,2,3-Trichloropropane	1.0	U	0.43	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.096	1.0
Vinyl chloride	1.0	U	0.22	1.0
Bromochloromethane	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	108	66 - 117
Dibromofluoromethane (Surr)	98	75 - 121
1,2-Dichloroethane-d4 (Surr)	91	63 - 129
Toluene-d8 (Surr)	98	74 - 115

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Lab Control Sample - Batch: 240-49859

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49859/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/05/2012 1059
Prep Date: 07/05/2012 1059
Leach Date: N/A

Analysis Batch: 240-49859
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX11
Lab File ID: UXJ5592.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	9.91	99	83 - 112	
Bromobenzene	10.0	10.6	106	76 - 115	
Bromoform	10.0	10.8	108	40 - 131	
Bromomethane	10.0	12.7	127	11 - 185	
Carbon tetrachloride	10.0	9.93	99	66 - 128	
Chlorobenzene	10.0	9.72	97	85 - 110	
Chloroethane	10.0	10.6	106	25 - 153	
Chloroform	10.0	9.55	96	79 - 117	
Chloromethane	10.0	9.22	92	44 - 126	
2-Chlorotoluene	10.0	10.5	105	76 - 116	
4-Chlorotoluene	10.0	10.9	109	77 - 115	
cis-1,2-Dichloroethene	10.0	9.90	99	80 - 113	
cis-1,3-Dichloropropene	10.0	9.60	96	61 - 115	
Dibromomethane	10.0	10.3	103	81 - 120	
1,2-Dichlorobenzene	10.0	9.48	95	81 - 110	
1,3-Dichlorobenzene	10.0	9.77	98	80 - 110	
1,4-Dichlorobenzene	10.0	9.57	96	82 - 110	
Bromodichloromethane	10.0	10.1	101	72 - 121	
Dichlorodifluoromethane	10.0	8.66	87	19 - 129	
1,1-Dichloroethane	10.0	10.1	101	82 - 115	
1,2-Dichloroethane	10.0	9.65	97	71 - 127	
1,1-Dichloroethene	10.0	10.2	102	78 - 131	
1,2-Dichloropropane	10.0	10.0	100	81 - 115	
1,3-Dichloropropane	10.0	9.59	96	79 - 116	
2,2-Dichloropropane	10.0	9.72	97	50 - 129	
1,1-Dichloropropene	10.0	9.75	98	83 - 114	
Ethylbenzene	10.0	9.57	96	83 - 112	
Hexachlorobutadiene	10.0	9.38	94	36 - 134	
Isopropylbenzene	10.0	9.72	97	75 - 114	
p-Isopropyltoluene	10.0	10.6	106	74 - 120	
Methylene Chloride	10.0	11.2	112	66 - 131	
m-Xylene & p-Xylene	20.0	19.1	96	83 - 113	
Naphthalene	10.0	6.51	65	32 - 141	
n-Butylbenzene	10.0	9.44	94	66 - 125	
N-Propylbenzene	10.0	10.5	105	74 - 121	
o-Xylene	10.0	9.71	97	83 - 113	
sec-Butylbenzene	10.0	10.5	105	70 - 117	
Styrene	10.0	9.87	99	79 - 114	
tert-Butylbenzene	10.0	10.5	105	71 - 115	
1,1,1,2-Tetrachloroethane	10.0	10.0	100	72 - 116	
1,1,2,2-Tetrachloroethane	10.0	9.44	94	68 - 118	
Tetrachloroethene	10.0	9.48	95	79 - 114	
Toluene	10.0	9.40	94	84 - 111	
trans-1,2-Dichloroethene	10.0	9.86	99	83 - 117	
trans-1,3-Dichloropropene	10.0	9.31	93	58 - 117	
1,2,3-Trichlorobenzene	10.0	7.81	78	54 - 126	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Lab Control Sample - Batch: 240-49859

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 240-49859/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/05/2012 1059
 Prep Date: 07/05/2012 1059
 Leach Date: N/A

Analysis Batch: 240-49859
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: A3UX11
 Lab File ID: UXJ5592.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4-Trichlorobenzene	10.0	8.96	90	48 - 135	
1,1,1-Trichloroethane	10.0	9.51	95	74 - 118	
1,1,2-Trichloroethane	10.0	9.86	99	80 - 112	
Trichloroethene	10.0	10.1	101	76 - 117	
Trichlorofluoromethane	10.0	10.1	101	49 - 157	
1,2,3-Trichloropropane	10.0	10.1	101	73 - 129	
1,2,4-Trimethylbenzene	10.0	10.8	108	76 - 120	
1,3,5-Trimethylbenzene	10.0	10.8	108	72 - 118	
Vinyl chloride	10.0	9.77	98	53 - 127	
Bromochloromethane	10.0	9.74	97	77 - 120	
1,2-Dibromoethane	10.0	9.39	94	79 - 113	
Surrogate	% Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	106		66 - 117		
Dibromofluoromethane (Surr)	100		75 - 121		
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		
Toluene-d8 (Surr)	97		74 - 115		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49161

Lab Sample ID: MB 240-49161/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1634
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	200	U	0.67	200
Boron	200	U	34	200
Calcium	5000	U	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	5000	U	34	5000
Manganese	0.515	J	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	20	U	5.0	20
Lead	3.0	U	1.9	3.0
Lithium	4.53	J	1.8	50
SiO2, Silica	1100	U	14	1100

Lab Control Sample - Batch: 240-49161

Lab Sample ID: LCS 240-49161/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1638
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49561
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9062912A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2260	113	80 - 120	
Boron	1000	1130	113	80 - 120	
Calcium	50000	52100	104	80 - 120	
Chromium	200	207	104	80 - 120	
Iron	1000	1070	107	80 - 120	
Potassium	50000	52700	105	80 - 120	
Magnesium	50000	50000	100	80 - 120	
Manganese	500	529	106	80 - 120	
Sodium	50000	53700	107	80 - 120	
Nickel	500	512	102	80 - 120	
Zinc	500	518	104	80 - 120	
Lead	500	512	102	80 - 120	
Lithium	1000	1050	105	80 - 120	
SiO2, Silica	2140	2430	114	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49871

Lab Sample ID: MB 240-49868/1-B
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/06/2012 1623
Prep Date: 07/05/2012 0937
Leach Date: N/A

Analysis Batch: 240-50182
Prep Batch: 240-49871
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Dissolved

Instrument ID: I9
Lab File ID: I9070612A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Barium	0.842	J	0.67	200
Boron	200	U	34	200
Calcium	207	J	130	5000
Chromium	5.0	U	2.2	5.0
Iron	100	U	81	100
Potassium	5000	U	72	5000
Magnesium	54.8	J	34	5000
Manganese	15	U	0.41	15
Sodium	5000	U	590	5000
Nickel	40	U	3.2	40
Zinc	7.48	J	5.0	50
Lead	3.0	U	1.9	3.0
Lithium	50	U	1.8	50
SiO2, Silica	24.3	J	14	1100

Lab Control Sample - Batch: 240-49871

Lab Sample ID: LCS 240-49871/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/06/2012 1627
Prep Date: 07/05/2012 0937
Leach Date: N/A

Analysis Batch: 240-50182
Prep Batch: 240-49871
Leach Batch: N/A
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: I9
Lab File ID: I9070612A.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2070	103	80 - 120	
Boron	1000	1040	104	80 - 120	
Calcium	50000	51500	103	80 - 120	
Chromium	200	196	98	80 - 120	
Iron	1000	1040	104	80 - 120	
Potassium	50000	50700	101	80 - 120	
Magnesium	50000	50500	101	80 - 120	
Manganese	500	497	99	80 - 120	
Sodium	50000	51400	103	80 - 120	
Nickel	500	482	96	80 - 120	
Zinc	500	504	101	80 - 120	
Lead	500	483	97	80 - 120	
Lithium	1000	1000	100	80 - 120	
SiO2, Silica	2140	2260	106	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49161

Lab Sample ID: MB 240-49161/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1404
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49560
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
Lab File ID: I8062912A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	10	U	0.33	10

Lab Control Sample - Batch: 240-49161

Lab Sample ID: LCS 240-49161/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1422
Prep Date: 06/28/2012 0651
Leach Date: N/A

Analysis Batch: 240-49560
Prep Batch: 240-49161
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
Lab File ID: I8062912A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	925	92	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49878

Lab Sample ID: MB 240-49868/1-C
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/06/2012 0925
Prep Date: 07/05/2012 0946
Leach Date: N/A

Analysis Batch: 240-50170
Prep Batch: 240-49878
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Dissolved

Instrument ID: I8
Lab File ID: I8070612A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Strontium	0.679	J	0.33	10

Lab Control Sample - Batch: 240-49878

Lab Sample ID: LCS 240-49878/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/06/2012 0930
Prep Date: 07/05/2012 0946
Leach Date: N/A

Analysis Batch: 240-50170
Prep Batch: 240-49878
Leach Batch: N/A
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: I8
Lab File ID: I8070612A.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Strontium	1000	865	86	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-48696

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48696/5	Analysis Batch:	240-48696	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0011059-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1202	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-48696

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48696/6	Analysis Batch:	240-48696	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0011059-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1219	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	48.9	98	90 - 110	
Fluoride-Dissolved	2.50	2.47	99	90 - 110	
Bromide-Dissolved	10.0	9.56	96	90 - 110	
Sulfate-Dissolved	50.0	47.7	95	90 - 110	

Matrix Spike - Batch: 240-48696

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12605-2	Analysis Batch:	240-48696	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	10240-0011059-010.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1325	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	6.3		50.0	60.2	108	80 - 120	
Fluoride-Dissolved	0.042	J	2.50	3.02	119	80 - 120	
Bromide-Dissolved	0.50	U	10.0	10.6	106	80 - 120	
Sulfate-Dissolved	6.2		50.0	58.5	105	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-48697

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48697/5	Analysis Batch:	240-48697	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0011059-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1202	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrite as N-Dissolved	0.10	U	0.012	0.10
Nitrate as N-Dissolved	0.10	U	0.023	0.10

Lab Control Sample - Batch: 240-48697

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48697/6	Analysis Batch:	240-48697	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6240-0011059-006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1219	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	2.50	2.38	95	90 - 110	
Nitrate as N-Dissolved	2.50	2.31	92	90 - 110	

Matrix Spike - Batch: 240-48697

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12605-2	Analysis Batch:	240-48697	Instrument ID:	SIMON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	10240-0011059-010.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/25/2012 1325	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N-Dissolved	0.10 U	2.50	2.68	107	80 - 120	
Nitrate as N-Dissolved	1.6	2.50	4.21	104	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-48902

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-48902/4	Analysis Batch:	240-48902	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	4240-0011105-004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/26/2012 1248	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Orthophosphate-Dissolved	0.50	U	0.044	0.50

Lab Control Sample - Batch: 240-48902

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-48902/5	Analysis Batch:	240-48902	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5240-0011105-005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/26/2012 1306	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Orthophosphate-Dissolved	2.50	2.61	104	90 - 110	

Matrix Spike - Batch: 240-48902

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12605-1	Analysis Batch:	240-48902	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	7240-0011105-007.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/26/2012 1341	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Orthophosphate-Dissolved	0.19 J	2.50	4.72	181	80 - 120	F

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-50113

Method: 9056A
Preparation: N/A

Lab Sample ID:	MB 240-50108/1-A	Analysis Batch:	240-50113	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	14240-0011394-015.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2012 1923	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride-Dissolved	1.0	U	0.10	1.0
Fluoride-Dissolved	1.0	U	0.015	1.0
Bromide-Dissolved	0.50	U	0.081	0.50
Sulfate-Dissolved	1.0	U	0.12	1.0

Lab Control Sample - Batch: 240-50113

Method: 9056A
Preparation: N/A

Lab Sample ID:	LCS 240-50108/2-A	Analysis Batch:	240-50113	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	15240-0011394-016.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2012 1941	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	50.0	51.4	103	90 - 110	
Fluoride-Dissolved	2.50	2.44	98	90 - 110	
Bromide-Dissolved	10.0	9.73	97	90 - 110	
Sulfate-Dissolved	50.0	49.1	98	90 - 110	

Matrix Spike - Batch: 240-50113

Method: 9056A
Preparation: N/A

Lab Sample ID:	240-12605-1	Analysis Batch:	240-50113	Instrument ID:	GARFUNKEL
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	17240-0011394-018.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2012 2015	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Dissolved	7.4		50.0	63.8	113	80 - 120	
Fluoride-Dissolved	0.043	J	2.50	2.76	109	80 - 120	
Bromide-Dissolved	0.088	J	10.0	10.7	106	80 - 120	
Sulfate-Dissolved	7.2		50.0	59.8	105	80 - 120	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49573

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 240-49573/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1211
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-49573
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: 062912alk.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Bicarbonate Alkalinity as CaCO3	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO3	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-49573

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 240-49573/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1205
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-49573
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: STEVE
Lab File ID: 062912alk.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	79.4	82.5	104	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49870

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 240-49870/5	Analysis Batch:	240-49870	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070312alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	07/03/2012 1119	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Bicarbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0
Carbonate Alkalinity as CaCO ₃	5.0	U	2.7	5.0

Lab Control Sample - Batch: 240-49870

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 240-49870/4	Analysis Batch:	240-49870	Instrument ID:	STEVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070312alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	07/03/2012 1113	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	79.4	82.7	104	90 - 127	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49375

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Lab Sample ID: MB 240-49375/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0745
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as PO4-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-49375

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Lab Sample ID: LCS 240-49375/11-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0746
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A
Units: mg/L

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as PO4-Dissolved	5.50	5.83	106	53 - 134	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-49375

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Dissolved

MS Lab Sample ID: 240-12605-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0747
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-12605-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0748
Leach Date: N/A

Analysis Batch: 240-49474
Prep Batch: 240-49375
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP062912.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Phosphorus as PO4-Dissolved	103	102	10 - 199	2	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-49375

Method: SM 4500 P E

**Preparation: 365.2/365.3/365
Dissolved**

MS Lab Sample ID: 240-12605-2 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0747
Leach Date: N/A

MSD Lab Sample ID: 240-12605-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1424
Prep Date: 06/29/2012 0748
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Phosphorus as PO4-Dissolved	0.10 U	0.500	0.500	0.516	0.508

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-49419

Lab Sample ID: MB 240-49413/1-B
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0745
Leach Date: N/A

Analysis Batch: 240-49478
Prep Batch: 240-49419
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

Instrument ID: BARNEY
Lab File ID: TP062912A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Total Phosphorus as PO4-Dissolved	0.10	U	0.033	0.10

Lab Control Sample - Batch: 240-49419

Lab Sample ID: LCS 240-49413/2-B
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0748
Leach Date: N/A

Analysis Batch: 240-49478
Prep Batch: 240-49419
Leach Batch: N/A
Units: mg/L

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

Instrument ID: BARNEY
Lab File ID: TP062912A.xls
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as PO4-Dissolved	5.50	5.79	105	53 - 134	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 240-49419

Method: SM 4500 P E Preparation: 365.2/365.3/365 Dissolved

MS Lab Sample ID: 240-12605-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0754
Leach Date: N/A

Analysis Batch: 240-49478
Prep Batch: 240-49419
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP062912A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-12605-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0757
Leach Date: N/A

Analysis Batch: 240-49478
Prep Batch: 240-49419
Leach Batch: N/A

Instrument ID: BARNEY
Lab File ID: TP062912A.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Phosphorus as PO4-Dissolved	109	110	10 - 199	1	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-49419

Method: SM 4500 P E

Preparation: 365.2/365.3/365

Dissolved

MS Lab Sample ID: 240-12605-1 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0754
Leach Date: N/A

MSD Lab Sample ID: 240-12605-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/29/2012 1604
Prep Date: 06/29/2012 0757
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Phosphorus as PO4-Dissolved	0.10	U	0.500	0.500	0.545	0.549

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-50241

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	MB 240-50241/7	Analysis Batch:	240-50241	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070912.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/09/2012 0728	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.0515	J	0.035	0.20

Lab Control Sample - Batch: 240-50241

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID:	LCS 240-50241/8	Analysis Batch:	240-50241	Instrument ID:	DAVE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	070912.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/09/2012 0729	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	13.9	14.0	100	85 - 114	

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Method Blank - Batch: 240-50397

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID: MB 240-50305/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/10/2012 1254
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-50397
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: DAVE
Lab File ID: 071012.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Ammonia-Dissolved	0.0825	J	0.035	0.20

Lab Control Sample - Batch: 240-50397

Method: SM4500 NH3 -F
Preparation: N/A

Lab Sample ID: LCS 240-50305/2-A
Client Matrix: Water
Dilution: 5.0
Analysis Date: 07/10/2012 1254
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-50397
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: DAVE
Lab File ID: 071012.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-Dissolved	13.9	12.9	93	85 - 114	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 240-50397

Method: SM4500 NH3 -F
Preparation: N/A

MS Lab Sample ID: 240-12605-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/10/2012 1305
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-50397
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: DAVE
Lab File ID: 071012.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 240-12605-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/10/2012 1308
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 240-50397
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: DAVE
Lab File ID: 071012.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia-Dissolved	106	111	75 - 125	4	20		

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 240-50397

Method: SM4500 NH3 -F

Preparation: N/A

MS Lab Sample ID: 240-12605-1 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/10/2012 1305
Prep Date: N/A
Leach Date: N/A

MSD Lab Sample ID: 240-12605-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 07/10/2012 1308
Prep Date: N/A
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia-Dissolved	0.082	J	2.50	2.50	2.74	2.84

DATA REPORTING QUALIFIERS

Client: TRW Automotive

Job Number: 240-12605-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	L	A negative instrument reading had an absolute value greater than the reporting limit
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-49717					
LCS 240-49717/4	Lab Control Sample	T	Water	8260B	
MB 240-49717/5	Method Blank	T	Water	8260B	
240-12605-1	MW-101(20120622)	T	Water	8260B	
240-12605-2	MW-1A(20120622)	T	Water	8260B	
Analysis Batch:240-49859					
LCS 240-49859/4	Lab Control Sample	T	Water	8260B	
MB 240-49859/5	Method Blank	T	Water	8260B	
240-12605-3	MW-102A(20120622)	T	Water	8260B	
240-12605-4TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 240-49161					
LCS 240-49161/2-A	Lab Control Sample	R	Water	3005A	
LCS 240-49161/3-A	Lab Control Sample	R	Water	3005A	
MB 240-49161/1-A	Method Blank	R	Water	3005A	
240-12605-2	MW-1A(20120622)	D	Water	3005A	
240-12605-3	MW-102A(20120622)	D	Water	3005A	
Analysis Batch:240-49560					
LCS 240-49161/3-A	Lab Control Sample	R	Water	6020	240-49161
MB 240-49161/1-A	Method Blank	R	Water	6020	240-49161
240-12605-2	MW-1A(20120622)	D	Water	6020	240-49161
240-12605-3	MW-102A(20120622)	D	Water	6020	240-49161
Analysis Batch:240-49561					
LCS 240-49161/2-A	Lab Control Sample	R	Water	6010B	240-49161
MB 240-49161/1-A	Method Blank	R	Water	6010B	240-49161
240-12605-2	MW-1A(20120622)	D	Water	6010B	240-49161
240-12605-3	MW-102A(20120622)	D	Water	6010B	240-49161
Prep Batch: 240-49871					
LCS 240-49871/2-A	Lab Control Sample	R	Water	3005A	
MB 240-49868/1-B	Method Blank	D	Water	3005A	
240-12605-1	MW-101(20120622)	D	Water	3005A	
Prep Batch: 240-49878					
LCS 240-49878/2-A	Lab Control Sample	R	Water	3005A	
MB 240-49868/1-C	Method Blank	D	Water	3005A	
240-12605-1	MW-101(20120622)	D	Water	3005A	
Analysis Batch:240-50170					
LCS 240-49878/2-A	Lab Control Sample	R	Water	6020	240-49878
MB 240-49868/1-C	Method Blank	D	Water	6020	240-49878
240-12605-1	MW-101(20120622)	D	Water	6020	240-49878
Analysis Batch:240-50182					
LCS 240-49871/2-A	Lab Control Sample	R	Water	6010B	240-49871
MB 240-49868/1-B	Method Blank	D	Water	6010B	240-49871
240-12605-1	MW-101(20120622)	D	Water	6010B	240-49871
Analysis Batch:240-50312					
240-12605-1	MW-101(20120622)	D	Water	6010B	240-49871

Report Basis

D = Dissolved

R = Total Recoverable

TestAmerica Canton

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:240-48696					
LCS 240-48696/6	Lab Control Sample	T	Water	9056A	
MB 240-48696/5	Method Blank	T	Water	9056A	
240-12605-2	MW-1A(20120622)	D	Water	9056A	
240-12605-2MS	Matrix Spike	D	Water	9056A	
240-12605-3	MW-102A(20120622)	D	Water	9056A	
Analysis Batch:240-48697					
LCS 240-48697/6	Lab Control Sample	T	Water	9056A	
MB 240-48697/5	Method Blank	T	Water	9056A	
240-12605-1	MW-101(20120622)	T	Water	9056A	
240-12605-2	MW-1A(20120622)	D	Water	9056A	
240-12605-2MS	Matrix Spike	D	Water	9056A	
240-12605-3	MW-102A(20120622)	D	Water	9056A	
Analysis Batch:240-48902					
LCS 240-48902/5	Lab Control Sample	T	Water	9056A	
MB 240-48902/4	Method Blank	T	Water	9056A	
240-12605-1	MW-101(20120622)	T	Water	9056A	
240-12605-1MS	Matrix Spike	T	Water	9056A	
240-12605-2	MW-1A(20120622)	D	Water	9056A	
240-12605-3	MW-102A(20120622)	D	Water	9056A	
Prep Batch: 240-49375					
LCS 240-49375/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-49375/10-A	Method Blank	T	Water	365.2/365.3/365	
240-12605-2	MW-1A(20120622)	D	Water	365.2/365.3/365	
240-12605-2MS	Matrix Spike	D	Water	365.2/365.3/365	
240-12605-2MSD	Matrix Spike Duplicate	D	Water	365.2/365.3/365	
240-12605-3	MW-102A(20120622)	D	Water	365.2/365.3/365	
Prep Batch: 240-49419					
LCS 240-49413/2-B	Lab Control Sample	D	Water	365.2/365.3/365	
MB 240-49413/1-B	Method Blank	D	Water	365.2/365.3/365	
240-12605-1	MW-101(20120622)	D	Water	365.2/365.3/365	
240-12605-1MS	Matrix Spike	D	Water	365.2/365.3/365	
240-12605-1MSD	Matrix Spike Duplicate	D	Water	365.2/365.3/365	
Analysis Batch:240-49474					
LCS 240-49375/11-A	Lab Control Sample	T	Water	SM 4500 P E	240-49375
MB 240-49375/10-A	Method Blank	T	Water	SM 4500 P E	240-49375
240-12605-2	MW-1A(20120622)	D	Water	SM 4500 P E	240-49375
240-12605-2MS	Matrix Spike	D	Water	SM 4500 P E	240-49375
240-12605-2MSD	Matrix Spike Duplicate	D	Water	SM 4500 P E	240-49375
240-12605-3	MW-102A(20120622)	D	Water	SM 4500 P E	240-49375

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Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-49478					
LCS 240-49413/2-B	Lab Control Sample	D	Water	SM 4500 P E	240-49419
MB 240-49413/1-B	Method Blank	D	Water	SM 4500 P E	240-49419
240-12605-1	MW-101(20120622)	D	Water	SM 4500 P E	240-49419
240-12605-1MS	Matrix Spike	D	Water	SM 4500 P E	240-49419
240-12605-1MSD	Matrix Spike Duplicate	D	Water	SM 4500 P E	240-49419
Analysis Batch:240-49573					
LCS 240-49573/4	Lab Control Sample	T	Water	SM 2320B	
MB 240-49573/5	Method Blank	T	Water	SM 2320B	
240-12605-1	MW-101(20120622)	T	Water	SM 2320B	
240-12605-2	MW-1A(20120622)	T	Water	SM 2320B	
Analysis Batch:240-49870					
LCS 240-49870/4	Lab Control Sample	T	Water	SM 2320B	
MB 240-49870/5	Method Blank	T	Water	SM 2320B	
240-12605-3	MW-102A(20120622)	T	Water	SM 2320B	
Analysis Batch:240-50113					
LCS 240-50108/2-A	Lab Control Sample	D	Water	9056A	
MB 240-50108/1-A	Method Blank	D	Water	9056A	
240-12605-1	MW-101(20120622)	D	Water	9056A	
240-12605-1MS	Matrix Spike	D	Water	9056A	
Analysis Batch:240-50241					
LCS 240-50241/8	Lab Control Sample	T	Water	SM4500 NH3 -F	
MB 240-50241/7	Method Blank	T	Water	SM4500 NH3 -F	
240-12605-2	MW-1A(20120622)	D	Water	SM4500 NH3 -F	
240-12605-3	MW-102A(20120622)	D	Water	SM4500 NH3 -F	
Analysis Batch:240-50397					
LCS 240-50305/2-A	Lab Control Sample	D	Water	SM4500 NH3 -F	
MB 240-50305/1-A	Method Blank	D	Water	SM4500 NH3 -F	
240-12605-1	MW-101(20120622)	D	Water	SM4500 NH3 -F	
240-12605-1MS	Matrix Spike	D	Water	SM4500 NH3 -F	
240-12605-1MSD	Matrix Spike Duplicate	D	Water	SM4500 NH3 -F	

Report Basis

D = Dissolved

T = Total

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Laboratory Chronicle

Lab ID: 240-12605-1

Client ID: MW-101(20120622)

Sample Date/Time: 06/22/2012 09:55

Received Date/Time: 06/23/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-12605-B-1		240-49717		07/03/2012 16:32	1	TAL NC	LE
A:8260B	240-12605-B-1		240-49717		07/03/2012 16:32	1	TAL NC	LE
P:3005A	240-12605-E-1-B		240-50182	240-49871	07/05/2012 09:37	1	TAL NC	AS
A:6010B	240-12605-E-1-B		240-50182	240-49871	07/07/2012 02:32	1	TAL NC	NJM
P:3005A	240-12605-E-1-B		240-50312	240-49871	07/05/2012 09:37	1	TAL NC	AS
A:6010B	240-12605-E-1-B		240-50312	240-49871	07/09/2012 18:53	1	TAL NC	NJM
P:3005A	240-12605-E-1-C		240-50170	240-49878	07/05/2012 10:03	1	TAL NC	AS
A:6020	240-12605-E-1-C		240-50170	240-49878	07/06/2012 13:12	1	TAL NC	BD
A:9056A	240-12605-D-1		240-48697		06/25/2012 12:35	1	TAL NC	LG
A:9056A	240-12605-D-1		240-48902		06/26/2012 13:23	1	TAL NC	LG
A:9056A	240-12605-D-1-G		240-50113		07/06/2012 19:58	1	TAL NC	JB
A:SM 2320B	240-12605-E-1		240-49573		06/29/2012 16:45	1	TAL NC	JB
P:365.2/365.3/365	240-12605-D-1-D		240-49478	240-49419	06/29/2012 07:51	1	TAL NC	TH
A:SM 4500 P E	240-12605-D-1-D		240-49478	240-49419	06/29/2012 16:04	1	TAL NC	TH
A:SM4500 NH3 -F	240-12605-F-1-A		240-50397		07/10/2012 12:56	1	TAL NC	JK

Lab ID: 240-12605-1 MS

Client ID: MW-101(20120622)

Sample Date/Time: 06/22/2012 09:55

Received Date/Time: 06/23/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9056A	240-12605-D-1 MS		240-48902		06/26/2012 13:41	1	TAL NC	LG
A:9056A	240-12605-D-1-H MS		240-50113		07/06/2012 20:15	1	TAL NC	JB
P:365.2/365.3/365	240-12605-D-1-E MS		240-49478	240-49419	06/29/2012 07:54	1	TAL NC	TH
A:SM 4500 P E	240-12605-D-1-E MS		240-49478	240-49419	06/29/2012 16:04	1	TAL NC	TH
A:SM4500 NH3 -F	240-12605-F-1-B MS		240-50397		07/10/2012 13:05	1	TAL NC	JK

Lab ID: 240-12605-1 MSD

Client ID: MW-101(20120622)

Sample Date/Time: 06/22/2012 09:55

Received Date/Time: 06/23/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:365.2/365.3/365	240-12605-D-1-F MSD		240-49478	240-49419	06/29/2012 07:57	1	TAL NC	TH
A:SM 4500 P E	240-12605-D-1-F MSD		240-49478	240-49419	06/29/2012 16:04	1	TAL NC	TH
A:SM4500 NH3 -F	240-12605-F-1-C MSD		240-50397		07/10/2012 13:08	1	TAL NC	JK

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Laboratory Chronicle

Lab ID: 240-12605-2

Client ID: MW-1A(20120622)

Sample Date/Time: 06/21/2012 17:05

Received Date/Time: 06/23/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-12605-B-2		240-49717		07/03/2012 16:55	1	TAL NC	LE
A:8260B	240-12605-B-2		240-49717		07/03/2012 16:55	1	TAL NC	LE
P:3005A	240-12605-H-2-A		240-49561	240-49161	06/28/2012 06:51	1	TAL NC	SG
A:6010B	240-12605-H-2-A		240-49561	240-49161	06/29/2012 17:40	1	TAL NC	NJM
P:3005A	240-12605-H-2-A		240-49560	240-49161	06/28/2012 06:51	1	TAL NC	SG
A:6020	240-12605-H-2-A		240-49560	240-49161	06/29/2012 16:00	1	TAL NC	BD
A:9056A	240-12605-D-2		240-48696		06/25/2012 13:08	1	TAL NC	LG
A:9056A	240-12605-D-2		240-48697		06/25/2012 13:08	1	TAL NC	LG
A:9056A	240-12605-D-2		240-48902		06/26/2012 14:16	1	TAL NC	LG
A:SM 2320B	240-12605-D-2		240-49573		06/29/2012 16:56	1	TAL NC	JB
P:365.2/365.3/365	240-12605-F-2-A		240-49474	240-49375	06/29/2012 07:46	1	TAL NC	TH
A:SM 4500 P E	240-12605-F-2-A		240-49474	240-49375	06/29/2012 14:24	1	TAL NC	TH
A:SM4500 NH3-F	240-12605-F-2		240-50241		07/09/2012 08:35	1	TAL NC	JK

Lab ID: 240-12605-2 MS

Client ID: MW-1A(20120622)

Sample Date/Time: 06/21/2012 17:05

Received Date/Time: 06/23/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9056A	240-12605-D-2 MS		240-48696		06/25/2012 13:25	1	TAL NC	LG
A:9056A	240-12605-D-2 MS		240-48697		06/25/2012 13:25	1	TAL NC	LG
P:365.2/365.3/365	240-12605-F-2-B MS		240-49474	240-49375	06/29/2012 07:47	1	TAL NC	TH
A:SM 4500 P E	240-12605-F-2-B MS		240-49474	240-49375	06/29/2012 14:24	1	TAL NC	TH

Lab ID: 240-12605-2 MSD

Client ID: MW-1A(20120622)

Sample Date/Time: 06/21/2012 17:05

Received Date/Time: 06/23/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:365.2/365.3/365	240-12605-F-2-C MSD		240-49474	240-49375	06/29/2012 07:48	1	TAL NC	TH
A:SM 4500 P E	240-12605-F-2-C MSD		240-49474	240-49375	06/29/2012 14:24	1	TAL NC	TH

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Laboratory Chronicle

Lab ID: 240-12605-3

Client ID: MW-102A(20120622)

Sample Date/Time: 06/22/2012 12:15

Received Date/Time: 06/23/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-12605-B-3		240-49859		07/05/2012 13:38	1	TAL NC	LE
A:8260B	240-12605-B-3		240-49859		07/05/2012 13:38	1	TAL NC	LE
P:3005A	240-12605-H-3-A		240-49561	240-49161	06/28/2012 06:51	1	TAL NC	SG
A:6010B	240-12605-H-3-A		240-49561	240-49161	06/29/2012 17:44	1	TAL NC	NJM
P:3005A	240-12605-H-3-A		240-49560	240-49161	06/28/2012 06:51	1	TAL NC	SG
A:6020	240-12605-H-3-A		240-49560	240-49161	06/29/2012 16:05	1	TAL NC	BD
A:9056A	240-12605-D-3		240-48696		06/25/2012 12:52	1	TAL NC	LG
A:9056A	240-12605-D-3		240-48697		06/25/2012 12:52	1	TAL NC	LG
A:9056A	240-12605-D-3		240-48902		06/26/2012 14:33	1	TAL NC	LG
A:SM 2320B	240-12605-D-3		240-49870		07/03/2012 16:43	1	TAL NC	JB
P:365.2/365.3/365	240-12605-F-3-A		240-49474	240-49375	06/29/2012 07:48	1	TAL NC	TH
A:SM 4500 P E	240-12605-F-3-A		240-49474	240-49375	06/29/2012 14:24	1	TAL NC	TH
A:SM4500 NH3-F	240-12605-F-3		240-50241		07/09/2012 08:35	1	TAL NC	JK

Lab ID: 240-12605-4

Client ID: TRIP BLANK

Sample Date/Time: 06/22/2012 00:00

Received Date/Time: 06/23/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-12605-A-4		240-49859		07/05/2012 14:00	1	TAL NC	LE
A:8260B	240-12605-A-4		240-49859		07/05/2012 14:00	1	TAL NC	LE

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 240-49717/5		240-49717		07/03/2012 16:09	1	TAL NC	LE
A:8260B	MB 240-49717/5		240-49717		07/03/2012 16:09	1	TAL NC	LE
P:5030B	MB 240-49859/5		240-49859		07/05/2012 11:44	1	TAL NC	LE
A:8260B	MB 240-49859/5		240-49859		07/05/2012 11:44	1	TAL NC	LE
P:3005A	MB 240-49161/1-A		240-49561	240-49161	06/28/2012 06:51	1	TAL NC	SG
A:6010B	MB 240-49161/1-A		240-49561	240-49161	06/29/2012 16:34	1	TAL NC	NJM
P:3005A	MB 240-49868/1-B		240-50182	240-49871	07/05/2012 09:37	1	TAL NC	AS
A:6010B	MB 240-49868/1-B		240-50182	240-49871	07/06/2012 16:23	1	TAL NC	NJM
P:3005A	MB 240-49161/1-A		240-49560	240-49161	06/28/2012 06:51	1	TAL NC	SG
A:6020	MB 240-49161/1-A		240-49560	240-49161	06/29/2012 14:04	1	TAL NC	BD
P:3005A	MB 240-49868/1-C		240-50170	240-49878	07/05/2012 09:46	1	TAL NC	AS
A:6020	MB 240-49868/1-C		240-50170	240-49878	07/06/2012 09:25	1	TAL NC	BD
A:9056A	MB 240-48696/5		240-48696		06/25/2012 12:02	1	TAL NC	LG
A:9056A	MB 240-48697/5		240-48697		06/25/2012 12:02	1	TAL NC	LG
A:9056A	MB 240-48902/4		240-48902		06/26/2012 12:48	1	TAL NC	LG
A:9056A	MB 240-50108/1-A		240-50113		07/06/2012 19:23	1	TAL NC	JB
A:SM 2320B	MB 240-49573/5		240-49573		06/29/2012 12:11	1	TAL NC	JB
A:SM 2320B	MB 240-49870/5		240-49870		07/03/2012 11:19	1	TAL NC	JB
P:365.2/365.3/365	MB 240-49375/10-A		240-49474	240-49375	06/29/2012 07:45	1	TAL NC	TH
A:SM 4500 P E	MB 240-49375/10-A		240-49474	240-49375	06/29/2012 14:24	1	TAL NC	TH
P:365.2/365.3/365	MB 240-49413/1-B		240-49478	240-49419	06/29/2012 07:45	1	TAL NC	TH
A:SM 4500 P E	MB 240-49413/1-B		240-49478	240-49419	06/29/2012 16:04	1	TAL NC	TH
A:SM4500 NH3 -F	MB 240-50241/7		240-50241		07/09/2012 07:28	1	TAL NC	JK
A:SM4500 NH3 -F	MB 240-50305/1-A		240-50397		07/10/2012 12:54	1	TAL NC	JK

Quality Control Results

Client: TRW Automotive

Job Number: 240-12605-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 240-49717/4		240-49717		07/03/2012 15:46	1	TAL NC	LE
A:8260B	LCS 240-49717/4		240-49717		07/03/2012 15:46	1	TAL NC	LE
P:5030B	LCS 240-49859/4		240-49859		07/05/2012 10:59	1	TAL NC	LE
A:8260B	LCS 240-49859/4		240-49859		07/05/2012 10:59	1	TAL NC	LE
P:3005A	LCS 240-49161/2-A		240-49561	240-49161	06/28/2012 06:51	1	TAL NC	SG
A:6010B	LCS 240-49161/2-A		240-49561	240-49161	06/29/2012 16:38	1	TAL NC	NJM
P:3005A	LCS 240-49871/2-A		240-50182	240-49871	07/05/2012 09:37	1	TAL NC	AS
A:6010B	LCS 240-49871/2-A		240-50182	240-49871	07/06/2012 16:27	1	TAL NC	NJM
P:3005A	LCS 240-49161/3-A		240-49560	240-49161	06/28/2012 06:51	1	TAL NC	SG
A:6020	LCS 240-49161/3-A		240-49560	240-49161	06/29/2012 14:22	1	TAL NC	BD
P:3005A	LCS 240-49878/2-A		240-50170	240-49878	07/05/2012 09:46	1	TAL NC	AS
A:6020	LCS 240-49878/2-A		240-50170	240-49878	07/06/2012 09:30	1	TAL NC	BD
A:9056A	LCS 240-48696/6		240-48696		06/25/2012 12:19	1	TAL NC	LG
A:9056A	LCS 240-48697/6		240-48697		06/25/2012 12:19	1	TAL NC	LG
A:9056A	LCS 240-48902/5		240-48902		06/26/2012 13:06	1	TAL NC	LG
A:9056A	LCS 240-50108/2-A		240-50113		07/06/2012 19:41	1	TAL NC	JB
A:SM 2320B	LCS 240-49573/4		240-49573		06/29/2012 12:05	1	TAL NC	JB
A:SM 2320B	LCS 240-49870/4		240-49870		07/03/2012 11:13	1	TAL NC	JB
P:365.2/365.3/365	LCS 240-49375/11-A		240-49474	240-49375	06/29/2012 07:46	1	TAL NC	TH
A:SM 4500 P E	LCS 240-49375/11-A		240-49474	240-49375	06/29/2012 14:24	1	TAL NC	TH
P:365.2/365.3/365	LCS 240-49413/2-B		240-49478	240-49419	06/29/2012 07:48	1	TAL NC	TH
A:SM 4500 P E	LCS 240-49413/2-B		240-49478	240-49419	06/29/2012 16:04	1	TAL NC	TH
A:SM4500 NH3 -F	LCS 240-50241/8		240-50241		07/09/2012 07:29	5	TAL NC	JK
A:SM4500 NH3 -F	LCS 240-50305/2-A		240-50397		07/10/2012 12:54	5	TAL NC	JK

Lab References:

TAL NC = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MT6500CCV_00012	08/01/12	06/26/12	DIWATER, Lot DIWATER	1000 mL	MT6500CALLi_00002	5 mL	Lithium	5000 ug/L
					MTSI_00006	5 mL	SiO2, Silica	10700 ug/L
					MTTRCAL1_00007	2.5 mL	Iron	25000 ug/L
					MTTRCAL2_00003	5 mL	Calcium	50000 ug/L
							Magnesium	50000 ug/L
							Potassium	50000 ug/L
							Sodium	50000 ug/L
					MTTRCAL3_00003	0.5 mL	Lead	500 ug/L
					MTTRCAL4_00005	2 mL	Barium	2000 ug/L
							Chromium	2000 ug/L
							Manganese	2000 ug/L
							Nickel	2000 ug/L
							Zinc	2000 ug/L
					MTTRCAL5_00005	5 mL	Boron	5000 ug/L
.MT6500CALLi_00002	06/06/13		High Purity, Lot 1107617		(Purchased Reagent)		Lithium	1000 ug/mL
.MTSI_00006	10/06/13		High Purity Standards, Lot 1205231		(Purchased Reagent)		SiO2, Silica	2140 ug/mL
.MTTRCAL1_00007	10/05/12		HIGH PURITY STANDARDS, Lot 1127221		(Purchased Reagent)		Iron	10000 ug/mL
.MTTRCAL2_00003	11/11/12		HIGH PURITY STANDARDS, Lot 1124423		(Purchased Reagent)		Calcium	10000 ug/mL
							Magnesium	10000 ug/mL
							Potassium	10000 ug/mL
							Sodium	10000 ug/mL
.MTTRCAL3_00003	03/21/13		HIGH PURITY STANDARDS, Lot 1207637		(Purchased Reagent)		Lead	1000 mg/L
.MTTRCAL4_00005	11/21/12		HIGH PURITY STANDARDS, Lot 1132228		(Purchased Reagent)		Barium	1000 ug/mL
							Chromium	1000 ug/mL
							Manganese	1000 ug/mL
							Nickel	1000 ug/mL
							Zinc	1000 ug/mL
.MTTRCAL5_00005	08/01/12		Inorganic Ventures, Lot E2-MEB379148		(Purchased Reagent)		Boron	1000 ug/mL
MT6500CRIW_00005	07/20/12	01/20/12	DIWATER, Lot DIWATER	1000 mL	MT6500CALLi_00002	0.05 mL	Lithium	50 ug/L
					MTSI_00003	0.5 mL	SiO2, Silica	1070 ug/L
					MTTRCRI_00003	10 mL	Barium	10 ug/L
							Boron	200 ug/L
							Calcium	5000 ug/L
							Chromium	5 ug/L
							Iron	300 ug/L
							Lead	10 ug/L
							Magnesium	5000 ug/L
							Manganese	15 ug/L
							Nickel	25 ug/L
							Potassium	5000 ug/L
							Sodium	5000 ug/L
							Zinc	40 ug/L
.MT6500CALLi_00002	06/06/13		High Purity, Lot 1107617		(Purchased Reagent)		Lithium	1000 ug/mL
.MTSI_00003	03/27/13		High Purity, Lot 1103243		(Purchased Reagent)		SiO2, Silica	2140 ug/mL
.MTTRCRI_00003	07/22/12		HIGH PURITY STANDARDS, Lot 1120127		(Purchased Reagent)		Barium	1 ug/mL
							Boron	20 ug/mL
							Calcium	500 ug/mL
							Chromium	0.5 ug/mL
							Iron	30 ug/mL
							Lead	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Magnesium	500 ug/mL
							Manganese	1.5 ug/mL
							Nickel	2.5 ug/mL
							Potassium	500 ug/mL
							Sodium	500 ug/mL
							Zinc	4 ug/mL
MT6500ICSAB2W_00003	10/25/12	04/25/12	DIWATER, Lot DIWATER	250 mL	MT6500CALLi_00002	0.125 mL	Lithium	500 ug/L
					MTSI_00006	2.5 mL	Si	10000 ug/L
					MTSTRONTIUM_00001	0.25 mL	Strontium	1500 ug/L
					MTTRICSA_00007	25 mL	Al	500000 ug/L
							Calcium	500000 ug/L
							Iron	200000 ug/L
							Magnesium	500000 ug/L
					MTTRICSAB_00004	25 mL	Ag	1000 ug/L
							As	1000 ug/L
							Barium	500 ug/L
							Be	500 ug/L
							Cd	1000 ug/L
							Chromium	500 ug/L
							Co	500 ug/L
							Cu	500 ug/L
							Lead	1000 ug/L
							Manganese	500 ug/L
							Mo	1000 ug/L
							Nickel	1000 ug/L
							Potassium	10000 ug/L
							Sb	1000 ug/L
							Se	1000 ug/L
							Sodium	10000 ug/L
							Tl	1000 ug/L
							V	500 ug/L
							Zinc	1000 ug/L
					MTTRICV4_00002	0.5 mL	Boron	500 ug/L
							Sn	500 ug/L
							Strontium	1500 ug/L
							Ti	500 ug/L
.MT6500CALLi_00002	06/06/13		High Purity, Lot 1107617		(Purchased Reagent)		Lithium	1000 ug/mL
.MTSI_00006	10/06/13		High Purity Standards, Lot 1205231		(Purchased Reagent)		Si	1000 ug/mL
.MTSTRONTIUM_00001	06/20/13		HIGH PURITY STANDARDS, Lot 1127324		(Purchased Reagent)		Strontium	1000 ug/mL
.MTTRICSA_00007	12/01/12		INORGANIC VENTURES, Lot E2-MEB348035		(Purchased Reagent)		Al	5000 ug/mL
							Calcium	5000 ug/mL
							Iron	2000 ug/mL
							Magnesium	5000 ug/mL
.MTTRICSAB_00004	01/10/13		HIGH PURITY STANDARDS, Lot 1200415		(Purchased Reagent)		Ag	10 ug/mL
							As	10 ug/mL
							Barium	5 ug/mL
							Be	5 ug/mL
							Cd	10 ug/mL
							Chromium	5 ug/mL
							Co	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cu	5 ug/mL
							Lead	10 ug/mL
							Manganese	5 ug/mL
							Mo	10 ug/mL
							Nickel	10 ug/mL
							Potassium	100 ug/mL
							Sb	10 ug/mL
							Se	10 ug/mL
							Sodium	100 ug/mL
							Tl	10 ug/mL
.MTTRICV4_00002	11/02/12		CPI, Lot 11D279		(Purchased Reagent)		V	5 ug/mL
							Zinc	10 ug/mL
							Boron	250 ug/mL
							Sn	250 ug/mL
MT6500ICSAB2W_00004	11/02/12	06/07/12	DIWATER, Lot DIWATER	1000 mL	MT6500CALLi_00002	0.5 mL	Strontium	250 ug/mL
							Ti	250 ug/mL
					MTSI_00006	10 mL		
					MTSTRONTIUM_00002	1 mL		
					MTTRICSA_00008	100 mL	Lithium	500 ug/L
							Si	10000 ug/L
							Strontium	1500 ug/L
							Al	500000 ug/L
					MTTRICSAB_00004	100 mL	Calcium	500000 ug/L
							Iron	200000 ug/L
							Magnesium	500000 ug/L
							Ag	1000 ug/L
							As	1000 ug/L
							Barium	500 ug/L
							Be	500 ug/L
							Cd	1000 ug/L
							Chromium	500 ug/L
							Co	500 ug/L
							Cu	500 ug/L
							Lead	1000 ug/L
							Manganese	500 ug/L
							Mo	1000 ug/L
							Nickel	1000 ug/L
							Potassium	10000 ug/L
							Sb	1000 ug/L
							Se	1000 ug/L
							Sodium	10000 ug/L
							Tl	1000 ug/L
							V	500 ug/L
							Zinc	1000 ug/L
					MTTRICV4_00002	2 mL	Boron	500 ug/L
							Sn	500 ug/L
							Strontium	1500 ug/L
							Ti	500 ug/L
.MT6500CALLi_00002	06/06/13		High Purity, Lot 1107617		(Purchased Reagent)		Lithium	1000 ug/mL
.MTSI_00006	10/06/13		High Purity Standards, Lot 1205231		(Purchased Reagent)		Si	1000 ug/mL
.MTSTRONTIUM_00002	06/19/13		CPI, Lot 11H049		(Purchased Reagent)		Strontium	1000 ug/mL
.MTTRICSA_00008	04/01/13		INORGANIC VENTURES, Lot E2-MEB		(Purchased Reagent)		Al	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Calcium	5000 ug/mL
							Iron	2000 ug/mL
							Magnesium	5000 ug/mL
.MTTRICSAB_00004	01/10/13	HIGH PURITY STANDARDS, Lot 1200415			(Purchased Reagent)		Ag	10 ug/mL
							As	10 ug/mL
							Barium	5 ug/mL
							Be	5 ug/mL
							Cd	10 ug/mL
							Chromium	5 ug/mL
							Co	5 ug/mL
							Cu	5 ug/mL
							Lead	10 ug/mL
							Manganese	5 ug/mL
							Mo	10 ug/mL
							Nickel	10 ug/mL
							Potassium	100 ug/mL
							Sb	10 ug/mL
							Se	10 ug/mL
							Sodium	100 ug/mL
							Tl	10 ug/mL
							V	5 ug/mL
.MTTRICV4_00002	11/02/12	CPI, Lot 11D279			(Purchased Reagent)		Zinc	10 ug/mL
							Boron	250 ug/mL
							Sn	250 ug/mL
							Strontium	250 ug/mL
MT6500ICV_00006	11/02/12	06/06/12	DIWATER, Lot DIWATER	1000 mL	MT6500ICVLi_00002	1 mL	Lithium	1000 ug/L
					MTSI6500_00003	3 mL	SiO2, Silica	6420 ug/L
					MTTRICV1_00002	5 mL	Calcium	25000 ug/L
							Iron	12500 ug/L
							Magnesium	25000 ug/L
							Potassium	25000 ug/L
							Sodium	25000 ug/L
					MTTRICV3_00002	6 mL	Barium	1500 ug/L
							Chromium	1500 ug/L
							Manganese	1500 ug/L
							Nickel	1500 ug/L
							Zinc	1500 ug/L
					MTTRICV4_00002	6 mL	Boron	1500 ug/L
					MTTRICV5_00007	1.5 mL	Lead	375 ug/L
.MT6500ICVLi_00002	06/02/13		CPI, Lot 11E088		(Purchased Reagent)		Lithium	1000 ug/mL
.MTSI6500_00003	04/17/13		CPI, Lot 11F032		(Purchased Reagent)		SiO2, Silica	2140 ug/mL
.MTTRICV1_00002	05/21/13		CPI, Lot 11K180		(Purchased Reagent)		Calcium	5000 ug/mL
							Iron	2500 ug/mL
							Magnesium	5000 ug/mL
							Potassium	5000 ug/mL
							Sodium	5000 ug/mL
.MTTRICV3_00002	05/21/13		CPI, Lot 11K181		(Purchased Reagent)		Barium	250 ug/mL
							Chromium	250 ug/mL
							Manganese	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nickel	250 ug/mL
							Zinc	250 ug/mL
.MTTRICV4_00002	11/02/12		CPI, Lot 11D279		(Purchased Reagent)		Boron	250 ug/mL
.MTTRICV5_00007	01/22/13		CPI, Lot 11G112		(Purchased Reagent)		Lead	250 ug/mL
MTAGSPIKEW_00018	12/07/12	06/07/12	DIWATER, Lot DIWATER	500 mL	MTAGstock_00003	1.25 mL	Ag	2500 ug/L
					MTHNO3_00027	25 mL	Nitric acid	50000000 ug/L
.MTAGstock_00003	04/05/13		High Purity Standards, Lot 1108017		(Purchased Reagent)		Ag	1000 ug/mL
.MTHNO3_00027	06/01/14		Macron Chemicals, Lot K47022		(Purchased Reagent)		Nitric acid	100 %
MTHCL_00032	06/12/14		Macron, Lot L02A02		(Purchased Reagent)		Hydrogen Chloride	100 %
MTHCL_00033	06/26/14		Macron, Lot L02A02		(Purchased Reagent)		Hydrogen Chloride	100 %
MTHNO3_00028	06/13/14		Macron Chemicals, Lot K47022		(Purchased Reagent)		Nitric acid	100 %
MTICP1_00017	11/10/12	05/10/12	DIWATER, Lot DI WATER	1000 mL	MTHNO3_00025	50 mL	Nitric acid	50000000 ug/L
					MTICPSPIKE1A_00004	50 mL	Al	100000 ug/L
							As	100000 ug/L
							Barium	100000 ug/L
							Be	2500 ug/L
							Boron	50000 ug/L
							Cd	2500 ug/L
							Chromium	10000 ug/L
							Co	25000 ug/L
							Cu	12500 ug/L
							Iron	50000 ug/L
							Lead	25000 ug/L
							Manganese	25000 ug/L
							Nickel	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zinc	25000 ug/L
					MTICPSPIKEB_00004	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00001	50 mL	Lithium	50000 ug/L
							Si	50000 ug/L
							SiO2, Silica	107000 ug/L
							Strontium	50000 ug/L
.MTHNO3_00025	04/26/14		Macron Chemicals, Lot K44022		(Purchased Reagent)		Nitric acid	100 %
.MTICPSPIKE1A_00004	03/06/13		High Purity Standards, Lot 1206114		(Purchased Reagent)		Al	2000 ug/mL
							As	2000 ug/mL
							Barium	2000 ug/mL
							Be	50 ug/mL
							Boron	1000 ug/mL
							Cd	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Cu	250 ug/mL
							Iron	1000 ug/mL
							Lead	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Manganese	500 ug/mL
							Nickel	500 ug/mL
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zinc	500 ug/mL
.MTICPSPIKEB_00004	03/06/13		High Purity Standards, Lot 1206115		(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00001	04/12/13		High Purity Standards, Lot 1210111		(Purchased Reagent)		Lithium	1000 ug/mL
							Si	1000 ug/mL
							SiO2, Silica	2140 ug/mL
							Strontium	1000 ug/mL
MTICP2A_00016	11/11/12	05/21/12	DIWATER, Lot DIWATER	500 mL	MTHNO3_00026	25 mL	Nitric acid	50000000 ug/L
					MTICP2ASPIKE_00005	125 mL	Calcium	2500000 ug/L
							Magnesium	2500000 ug/L
							Potassium	2500000 ug/L
							Sodium	2500000 ug/L
.MTHNO3_00026	05/14/14		Macron Chemicals, Lot K44022		(Purchased Reagent)		Nitric acid	100 %
.MTICP2ASPIKE_00005	11/11/12		High Purity Standards, Lot 1124423		(Purchased Reagent)		Calcium	10000 ug/mL
							Magnesium	10000 ug/mL
							Potassium	10000 ug/mL
							Sodium	10000 ug/mL
MTICP2A_00017	11/11/12	05/21/12	DIWATER, Lot DIWATER	500 mL	MTHNO3_00028	25 mL	Nitric acid	50000000 ug/L
					MTICP2ASPIKE_00005	125 mL	Calcium	2500000 ug/L
							Magnesium	2500000 ug/L
							Potassium	2500000 ug/L
							Sodium	2500000 ug/L
.MTHNO3_00028	06/13/14		Macron Chemicals, Lot K47022		(Purchased Reagent)		Nitric acid	100 %
.MTICP2ASPIKE_00005	11/11/12		High Purity Standards, Lot 1124423		(Purchased Reagent)		Calcium	10000 ug/mL
							Magnesium	10000 ug/mL
							Potassium	10000 ug/mL
							Sodium	10000 ug/mL
MTICPMS2_00008	06/12/13		High Purity Standards, Lot 1216024		(Purchased Reagent)		Al	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
MTICPMSA_00008	04/10/13		High Purity Standards, Lot 1210011		(Purchased Reagent)		As	100 ug/mL
							Barium	100 ug/mL
							Be	100 ug/mL
							Cd	100 ug/mL
							Chromium	100 ug/mL
							Co	100 ug/mL
							Cu	100 ug/mL
							Lead	100 ug/mL
							Manganese	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nickel	100 ug/mL
							Se	100 ug/mL
							Strontium	100 ug/mL
							Tl	25 ug/mL
							V	100 ug/mL
							Zinc	100 ug/mL
MTICPSB_00008	04/10/13	High Purity Standards, Lot 1210006			(Purchased Reagent)		Ag	10 ug/mL
							Boron	10 ug/mL
							Mo	10 ug/mL
							Sb	10 ug/mL
							Sn	10 ug/mL
							Ti	10 ug/mL
							W	10 ug/mL
MTMSCAL2CCVW_00042	09/01/12	06/08/12	DIWATER, Lot DIWATER	500 mL	MTMSCAL3_00004	10 mL	Strontium	100 ug/L
.MTMSCAL3_00004	09/01/12	INORGANIC VENTURES, Lot E2-MEB388135			(Purchased Reagent)		Strontium	5 ug/mL
MTMSCAL2CCVW_00043	09/01/12	06/26/12	DIWATER, Lot DIWATER	500 mL	MTMSCAL3_00004	10 mL	Strontium	100 ug/L
.MTMSCAL3_00004	09/01/12	INORGANIC VENTURES, Lot E2-MEB388135			(Purchased Reagent)		Strontium	5 ug/mL
MTMSCAL3W_00014	09/01/12	06/13/12	DIWATER, Lot DIWATER	250 mL	MTMSCAL3_00004	10 mL	Strontium	200 ug/L
.MTMSCAL3_00004	09/01/12	INORGANIC VENTURES, Lot E2-MEB388135			(Purchased Reagent)		Strontium	5 ug/mL
MTMSCRIW_00019	10/10/12	06/26/12	DIWATER, Lot DIWATER	200 mL	MTMSCRI_00003	1 mL	Strontium	10 ug/L
.MTMSCRI_00003	10/10/12	HIGH PURITY STANDARDS, Lot 1127926			(Purchased Reagent)		Strontium	2 ug/mL
MTMSCRIW_00020	10/10/12	07/03/12	DIWATER, Lot DIWATER	200 mL	MTMSCRI_00003	1 mL	Strontium	10 ug/L
.MTMSCRI_00003	10/10/12	HIGH PURITY STANDARDS, Lot 1127926			(Purchased Reagent)		Strontium	2 ug/mL
MTMSICSABW_00015	08/22/12	06/01/12	DIWATER, Lot DIWATER	200 mL	MTMSICSA_00007	10 mL	Al	50000 ug/L
							Calcium	50000 ug/L
							Iron	50000 ug/L
							Magnesium	50000 ug/L
							Mo	1100 ug/L
							Potassium	50000 ug/L
							Sodium	50000 ug/L
							Ti	1100 ug/L
					MTMSICSABSOLA_00002	1 mL	As	100 ug/L
							Barium	100 ug/L
							Be	100 ug/L
							Boron	100 ug/L
							Cd	100 ug/L
							Chromium	100 ug/L
							Co	100 ug/L
							Cu	100 ug/L
							Lead	100 ug/L
							Manganese	100 ug/L
							Nickel	100 ug/L
							Se	100 ug/L
							Strontium	100 ug/L
							Tl	100 ug/L
							V	100 ug/L
							Zinc	100 ug/L
					MTMSICSABSOLA_00002	1 mL	Ag	100 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Mo	1100 ug/L
							Sb	100 ug/L
							Sn	100 ug/L
							Ti	1100 ug/L
							W	100 ug/L
.MTMSICSA_00007	05/01/13	INORGANIC VENTURES, Lot E2MEB371022			(Purchased Reagent)		Al	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Mo	20 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
							Ti	20 ug/mL
.MTMSICSABSOLA_00002	08/22/12	HIGH PURITY STANDARDS, Lot 1123123			(Purchased Reagent)		As	20 ug/mL
							Barium	20 ug/mL
							Be	20 ug/mL
							Boron	20 ug/mL
							Cd	20 ug/mL
							Chromium	20 ug/mL
							Co	20 ug/mL
							Cu	20 ug/mL
							Lead	20 ug/mL
							Manganese	20 ug/mL
							Nickel	20 ug/mL
							Se	20 ug/mL
							Strontium	20 ug/mL
							Tl	20 ug/mL
							V	20 ug/mL
							Zinc	20 ug/mL
.MTMSICSABSOLB_00002	08/22/12	HIGH PURITY STANDARDS, Lot 1123124			(Purchased Reagent)		Ag	20 ug/mL
							Mo	20 ug/mL
							Sb	20 ug/mL
							Sn	20 ug/mL
							Ti	20 ug/mL
							W	20 ug/mL
MTMSICSAW_00015	12/13/12	06/13/12	DIWATER, Lot DIWATER	200 mL	MTMSICSA_00007	10 mL	Al	50000 ug/L
							Calcium	50000 ug/L
							Iron	50000 ug/L
							Magnesium	50000 ug/L
							Mo	1000 ug/L
							Potassium	50000 ug/L
							Sodium	50000 ug/L
							Ti	1000 ug/L
.MTMSICSA_00007	05/01/13	INORGANIC VENTURES, Lot E2MEB371022			(Purchased Reagent)		Al	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Mo	20 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ti	20 ug/mL
MTMSICVW_00015	08/22/12	06/13/12	DIWATER, Lot DIWATER	250 mL	MTMSICV1_00003	10 mL	Strontium	80 ug/L
.MTMSICV1_00003	01/16/13		HIGH PURITY STANDARDS, Lot 1201317		(Purchased Reagent)		Strontium	2 ug/mL
MTTRICSAW_00012	10/13/12	04/13/12	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00007	100 mL	Al	500000 ug/L
							Calcium	500000 ug/L
							Iron	200000 ug/L
							Magnesium	500000 ug/L
.MTTRICSA_00007	12/01/12		INORGANIC VENTURES, Lot E2-MEB348035		(Purchased Reagent)		Al	5000 ug/mL
							Calcium	5000 ug/mL
							Iron	2000 ug/mL
							Magnesium	5000 ug/mL
VM2MNP_00042	05/05/12	04/05/12	MEOH, Lot na	1 mL	VMSV200_00007	1 mL	2-Methylnaphthalene	100 ug/mL
.VMSV200_00007	08/31/14		ULTRA, Lot CC-1268Z		(Purchased Reagent)		2-Methylnaphthalene	100 ug/mL
VM2MNP_00047	06/26/12	05/29/12	MEOH, Lot na	1 mL	VMSV200_00007	1 mL	2-Methylnaphthalene	100 ug/mL
.VMSV200_00007	08/31/14		ULTRA, Lot CC-1268Z		(Purchased Reagent)		2-Methylnaphthalene	100 ug/mL
VM50IS_00014	07/24/12	01/24/12	MEOH, Lot 51182	50 mL	VMSTM520_00015	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VMSTM520_00015	07/31/13		Ultra Scientific, Lot CG-2361		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VM50IS_00015	06/20/12	03/21/12	MEOH, Lot 51182	50 mL	VMSTM520_00015	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VMSTM520_00015	07/31/13		Ultra Scientific, Lot CG-2361		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00063	06/21/12	06/14/12	MEOH, Lot na	2 mL	vm50ss_stk_00036	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00036	09/08/12	06/08/12	MEOH, Lot 115689	50 mL	VMstm530_00013	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VMstm530_00013	05/31/15		Ultra Scientific, Lot CJ-1280		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00027	09/01/12	03/01/12	MEOH, Lot 51182	50 mL	VMstm530_00011	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VMstm530_00011	12/31/13		Ultra Scientific, Lot CG-3959		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm50ss_stk_00036	09/08/12	06/08/12	MEOH, Lot 115689	50 mL	VMstm530_00013	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VMstm530_00013	05/31/15	Ultra Scientific, Lot CJ-1280			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vmap9_00066	05/03/12	04/26/12	MEOH, Lot na	1 mL	VMCU12302_00008	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Cyclohexanone	500 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl ether	50 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropyl ether	250 ug/mL
							Methacrylonitrile	50 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butanol	1000 ug/mL
							n-Butyl acetate	100 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	100 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
.VMCU12302_00008	09/30/12	Ultra Scientific, Lot CG-3029			(Purchased Reagent)		1,2,3-Trimethylbenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Cyclohexanone	500 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl ether	50 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropyl ether	250 ug/mL
							Methacrylonitrile	50 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butanol	1000 ug/mL
							n-Butyl acetate	100 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	100 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
vmap9_00073	06/21/12	06/14/12	MEOH, Lot na	1 mL	VMCU12302_00009	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Cyclohexanone	500 ug/mL
							Dichlorofluoromethane	50 ug/mL

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REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	100 ug/mL
							Ethyl ether	50 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropyl ether	250 ug/mL
							Methacrylonitrile	50 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butanol	1000 ug/mL
							n-Butyl acetate	100 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	100 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
.VMCU12302_00009	09/30/12		Ultra Scientific, Lot CG-3029		(Purchased Reagent)		1,2,3-Trimethylbenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Cyclohexanone	500 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl ether	50 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropyl ether	250 ug/mL
							Methacrylonitrile	50 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butanol	1000 ug/mL
							n-Butyl acetate	100 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	100 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
vmap9_00076	07/09/12	07/02/12	MEOH, Lot na	1 mL	VMCU12302_00009	1 mL	Dichlorofluoromethane	50 ug/mL
.VMCU12302_00009	09/30/12		Ultra Scientific, Lot CG-3029		(Purchased Reagent)		Dichlorofluoromethane	50 ug/mL
VMCGAS_00070	05/06/12	04/29/12	MEOH, Lot 51304	10 mL	VMDWM544_00010	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMDWM544_00010	12/31/14		ULTRA, Lot CH-3645		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMCGAS_00076	06/24/12	06/17/12	MEOH, Lot 115869	10 mL	VMDWM544_00010	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMDWM544_00010	12/31/14		ULTRA, Lot CH-3645		(Purchased Reagent)		Vinyl chloride	50 ug/mL
							Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
VMCGAS_00078	07/05/12	06/28/12	MEOH, Lot 115869	10 mL	VMDWM544_00010	250 uL	Vinyl chloride	2000 ug/mL
							Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
.VMDWM544_00010	12/31/14		ULTRA, Lot CH-3645		(Purchased Reagent)		Vinyl chloride	50 ug/mL
							Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
VMFASWS_00079	04/30/12	04/23/12	MEOH, Lot 51304	3 mL	VMFAS_00025	3 mL	Vinyl chloride	25 ug/mL
							Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
.VMFAS_00025	04/30/12	03/31/12	MEOH, Lot 51304	100 mL	VM48799U_00008	1.25 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VM556005_00011	1 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
					VM563136_00006	1 mL	1,1,1,2-Tetrachloroethane	25 ug/mL
					1,1-Dichloropropene	25 ug/mL		
					1,2,3-Trichlorobenzene	25 ug/mL		
					1,2,3-Trichloropropane	25 ug/mL		
					1,2,4-Trimethylbenzene	25 ug/mL		
					1,3,5-Trimethylbenzene	25 ug/mL		
					1,3-Dichloropropane	25 ug/mL		
					2,2-Dichloropropane	25 ug/mL		
					2-Chlorotoluene	25 ug/mL		
					4-Chlorotoluene	25 ug/mL		
					Bromobenzene	25 ug/mL		
					Bromochloromethane	25 ug/mL		
					Dibromomethane	25 ug/mL		
					Hexachlorobutadiene	25 ug/mL		
					n-Butylbenzene	25 ug/mL		
					N-Propylbenzene	25 ug/mL		
					Naphthalene	25 ug/mL		
					p-Isopropyltoluene	25 ug/mL		
					sec-Butylbenzene	25 ug/mL		
					tert-Butylbenzene	25 ug/mL		
..VM48799U_00008	09/30/12	Supelco, Lot LB84822			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
..VM556005_00011	05/31/13	Restek, Lot A085142			(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL

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REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	5000 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
..VM563136_00006	05/31/16		Restek, Lot A081684		(Purchased Reagent)		trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
VMFASWS_00088	06/24/12	06/17/12	MEOH, Lot na	3 mL	VMFAS_00027	3 mL	p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMFAS_00027	06/24/12	05/24/12	MEOH, Lot 115869	100 mL	VM48799U_00008	1.25 mL	tert-Butylbenzene	25 ug/mL
							Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
					VM556005_00011	1 mL	Vinyl chloride	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
					VM563136_00007	1 mL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Bromobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
..VM48799U_00008	09/30/12		Supelco, Lot LB84822		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
..VM556005_00011	05/31/13		Restek, Lot A085142		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	5000 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..VM563136_00007	11/30/16		Restek, Lot A085140		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
VMFASWS_00091	07/05/12	06/28/12	MEOH, Lot na	3 mL	VMFAS_00028	3 mL	tert-Butylbenzene	2500 ug/mL
							Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							n-Butylbenzene	25 ug/mL
.VMFAS_00028	07/23/12	06/23/12	MEOH, Lot 115869	100 mL	VM48799U_00008	1.25 mL	N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VM556005_00011	1 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
					VM563136_00007	1 mL	Trichloroethene	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
..VM48799U_00008	09/30/12		Supelco, Lot LB84822		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
..VM556005_00011	05/31/13		Restek, Lot A085142		(Purchased Reagent)		Vinyl chloride	2000 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	5000 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
..VM563136_00007	11/30/16		Restek, Lot A085140		(Purchased Reagent)		Trichloroethene	2500 ug/mL
							1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
VMPRIMARY_00103	05/06/12	04/29/12	MEOH, Lot na	1 mL	VMCUS7814_00017	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMCUS7814_00017	02/28/14	Ultra Scientific, Lot CJ-0210			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
VMPRIMARY_00115	06/21/12	06/14/12	MEOH, Lot na	1 mL	VMCUS7814_00017	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMCUS7814_00017	02/28/14		Ultra Scientific, Lot CJ-0210		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropene	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
VMPRIMARY_00119	07/06/12	06/29/12	MEOH, Lot na	1 mL	VMCUS7814_00018	1 mL	Trichloroethene	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMCUS7814_00018	02/28/14		Ultra Scientific, Lot CJ-0210		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
VMSUPPW_00069	05/03/12	04/26/12	MEOH, Lot na	1 mL	VMSUPP_00015	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Methyl acetate	50 ug/mL
							Vinyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Acrolein	500 ug/mL
							Acrylonitrile	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMSUPP_00015	05/24/12	02/24/12	MEOH, Lot 51304	50 mL	VM30006_00004	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VMCU5013_00006	1 mL	Methyl acetate	50 ug/mL
							Vinyl acetate	50 ug/mL
					VMCUS8634_00005	1 mL	Acetonitrile	500 ug/mL
							Acrolein	500 ug/mL
							Acrylonitrile	100 ug/mL
					VMEPA1016_00003	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM30006_00004	11/30/13		Restek, Lot A076449		(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL
..VMCU5013_00006	06/30/12		Ultra, Lot CJ-0462		(Purchased Reagent)		Methyl acetate	2500 ug/mL
							Vinyl acetate	2500 ug/mL
..VMCUS8634_00005	06/30/12		Ultra, Lot CJ-0461		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Acrolein	25000 ug/mL
							Acrylonitrile	5000 ug/mL
..VMEPA1016_00003	04/30/13		Ultra, Lot CG-0850		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
VMSUPPW_00076	06/24/12	06/17/12	MEOH, Lot na	1 mL	VMSUPP_00016	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica CantonJob No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration				
					Reagent ID	Volume Added						
							Acetone	100 ug/mL				
							Methyl acetate	50 ug/mL				
							Vinyl acetate	50 ug/mL				
							Acetonitrile	500 ug/mL				
							Acrolein	500 ug/mL				
							Acrylonitrile	100 ug/mL				
							2-Chloroethyl vinyl ether	100 ug/mL				
.VMSUPP_00016	06/30/12	05/23/12	MEOH, Lot 115869	50 mL	VM30006_00005	1 mL	2-Butanone (MEK)	100 ug/mL				
							2-Hexanone	100 ug/mL				
							4-Methyl-2-pentanone (MIBK)	100 ug/mL				
							Acetone	100 ug/mL				

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WCICCALSNL_00056	12/28/12	06/28/12	ELUENT, Lot 549607	20 mL	WCICSOLNA1_00007	1.6 mL	Bromide	40 mg/L
							Chloride	200 mg/L
							Fluoride	10 mg/L
							Sulfate	200 mg/L
.WCICSOLNA1_00007	03/01/13	Inorganic Ventures, Lot F2-MEB410035			(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICCCV_00159	06/29/12	06/22/12	ELUENT, Lot 539014	100 mL	WCICSOLNA1_00005	2 mL	Bromide	10 mg/L
							Chloride	50 mg/L
							Fluoride	2.5 mg/L
							Nitrate as N	2.5 mg/L
							Orthophosphate	2.5 mg/L
							Sulfate	50 mg/L
					WCICSOLNB1_00005	2 mL	Nitrite as N	2.5 mg/L
.WCICSOLNA1_00005	12/21/12	HIGH PURITY STANDARDS, Lot 1135422			(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Nitrate as N	125 ug/mL
							Orthophosphate	125 ug/mL
							Sulfate	2500 ug/mL
.WCICSOLNB1_00005	12/21/12	HIGH PURITY STANDARDS, Lot 1145423			(Purchased Reagent)		Nitrite as N	125 ug/mL
WCICCCV_00163	07/12/12	07/05/12	ELUENT, Lot 549607	100 mL	WCICSOLNA1_00007	2 mL	Bromide	10 mg/L
							Chloride	50 mg/L
							Fluoride	2.5 mg/L
							Sulfate	50 mg/L
.WCICSOLNA1_00007	03/01/13	Inorganic Ventures, Lot F2-MEB410035			(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICELUENT_00056	08/06/12	07/06/12	DIWATER, Lot 07/06/12	19 L	WCNA2C03_00006	7.417 g	Sodium carbonate	0.0390368 %
					WCNAHCO3_00006	1.68 g	Sodium bicarbonate	0.00884211 %
.WCNA2C03_00006	10/25/16	FISHER SCIENTIFIC, Lot 108254			(Purchased Reagent)		Sodium carbonate	1 g/g
.WCNAHCO3_00006	06/18/13	FISHER SCIENTIFIC, Lot 075559			(Purchased Reagent)		Sodium bicarbonate	1 g/g
WCICLCS_00093	06/27/12	05/25/12	ELUENT, Lot 501294	100 mL	WCICSOLNA2_00006	2 mL	Nitrate as N	2.5 mg/L
							Orthophosphate	2.5 mg/L
					WCICSOLNB2_00006	2 mL	Nitrite as N	2.5 mg/L
.WCICSOLNA2_00006	03/01/13	Inorganic Ventures, Lot F2-MEB410035			(Purchased Reagent)		Nitrate as N	125 ug/mL
							Orthophosphate	125 ug/mL
.WCICSOLNB2_00006	03/01/13	Inorganic Ventures, Lot F2-MEB411043			(Purchased Reagent)		Nitrite as N	125 ug/mL
WCICLCS_00097	06/28/12	06/21/12	ELUENT, Lot 539014	100 mL	WCICSOLNA2_00006	2 mL	Bromide	10 mg/L
							Chloride	50 mg/L
							Fluoride	2.5 mg/L
							Nitrate as N	2.5 mg/L
							Orthophosphate	2.5 mg/L
							Sulfate	50 mg/L
					WCICSOLNB2_00006	2 mL	Nitrite as N	2.5 mg/L
.WCICSOLNA2_00006	03/01/13	Inorganic Ventures, Lot F2-MEB410035			(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoride	125 ug/mL
							Nitrate as N	125 ug/mL
							Orthophosphate	125 ug/mL
							Sulfate	2500 ug/mL
.WCICSOLNB2_00006	03/01/13		Inorganic Ventures, Lot F2-MEB411043		(Purchased Reagent)		Nitrite as N	125 ug/mL
WCICLCS_00098	07/03/12	06/26/12	ELUENT, Lot 539014	100 mL	WCICSOLNA2_00007	10 mL	Bromide	10 mg/L
							Chloride	50 mg/L
							Fluoride	2.5 mg/L
							Sulfate	50 mg/L
.WCICSOLNA2_00007	10/14/12		High Purity Standards, Lot 1128511		(Purchased Reagent)		Bromide	100 ug/mL
							Chloride	500 ug/mL
							Fluoride	25 ug/mL
							Sulfate	500 ug/mL
WCICLCS_00100	07/10/12	07/03/12	ELUENT, Lot 549607	100 mL	WCICSOLNA2_00007	10 mL	Bromide	10 mg/L
							Chloride	50 mg/L
							Fluoride	2.5 mg/L
							Nitrate as N	2.5 mg/L
							Orthophosphate	2.5 mg/L
							Sulfate	50 mg/L
					WCICSOLNB2_00007	10 mL	Nitrite as N	2.5 mg/L
.WCICSOLNA2_00007	10/14/12		High Purity Standards, Lot 1128511		(Purchased Reagent)		Bromide	100 ug/mL
							Chloride	500 ug/mL
							Fluoride	25 ug/mL
							Nitrate as N	25 ug/mL
							Orthophosphate	25 ug/mL
							Sulfate	500 ug/mL
.WCICSOLNB2_00007	10/14/12		High Purity Standards, Lot 1128512		(Purchased Reagent)		Nitrite as N	25 ug/mL
WCICSOLNA1_00005	12/21/12		HIGH PURITY STANDARDS, Lot 1135422		(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Nitrate as N	125 ug/mL
							Orthophosphate	125 ug/mL
							Sulfate	2500 ug/mL
WCICSOLNA1_00007	03/01/13		Inorganic Ventures, Lot F2-MEB410035		(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICSOLNB1_00005	12/21/12		HIGH PURITY STANDARDS, Lot 1145423		(Purchased Reagent)		Nitrite as N	125 ug/mL
WCNH31000_00014	01/27/14		LabChem, Lot B025-07		(Purchased Reagent)		Ammonia	1000 mg/L as NH3
WCPHOS50PPM_00015	07/19/12	06/19/12	DIWATER, Lot 070511	100 mL	WCP041000PPM_00002	5 mL	Orthophosphate	50 mg/L
							Orthophosphate as P	50 mg/L
							Orthophosphorus as PO4	50 mg/L
							Total Phosphorus as PO4	50 mg/L
.WCP041000PPM_00002	03/17/13		LABCHEM INC, Lot A075-19		(Purchased Reagent)		Orthophosphate	1000 mg/L
							Orthophosphate as P	1000 mg/L
							Orthophosphorus as PO4	1000 mg/L
							Total Phosphorus as PO4	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WCSIMPNUTRNT_00015	11/30/12		ERA, Lot P181-505		(Purchased Reagent)		Ammonia	13.9 mg/L
WCWIBBYMINERA_00002	02/27/15		WIBBY, Lot 8119-08		(Purchased Reagent)		Alkalinity	79.4 mg/L

Certification Summary

Client: TRW Automotive
Project/Site: Oak Grove Village

TestAmerica Job ID: 240-12605-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	NELAC	9	01144CA
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAC	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAC	5	200004
TestAmerica Canton	Kansas	NELAC	7	E-10336
TestAmerica Canton	Kentucky	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAC	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAC	2	OH001
TestAmerica Canton	New York	NELAC	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica Canton	USDA	Federal		P330-11-00328
TestAmerica Canton	Virginia	NELAC	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-101(20120622)	240-12605-1	101	103	96	92
MW-1A(20120622)	240-12605-2	113	112	99	95
MW-102A(20120622)	240-12605-3	97	91	95	103
TRIP BLANK	240-12605-4	94	86	94	103
	MB 240-49717/5	108	104	102	97
	MB 240-49859/5	98	91	98	108
	LCS 240-49717/4	111	100	103	110
	LCS 240-49859/4	100	93	97	106

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115
BFB = 4-Bromofluorobenzene (Surr)	66-117

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXC4863.D
 Lab ID: LCS 240-49717/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	10.0	10.7	107	83-112	
Bromobenzene	10.0	8.26	83	76-115	
Bromoform	10.0	11.4	114	40-131	
Bromomethane	10.0	10.6	106	11-185	
Carbon tetrachloride	10.0	9.38	94	66-128	
Chlorobenzene	10.0	9.40	94	85-110	
Chloroethane	10.0	11.0	110	25-153	
Chloroform	10.0	10.6	106	79-117	
Chloromethane	10.0	9.35	94	44-126	
2-Chlorotoluene	10.0	8.97	90	76-116	
4-Chlorotoluene	10.0	9.01	90	77-115	
cis-1,2-Dichloroethene	10.0	10.9	109	80-113	
cis-1,3-Dichloropropene	10.0	9.02	90	61-115	
Dibromomethane	10.0	11.2	112	81-120	
1,2-Dichlorobenzene	10.0	9.39	94	81-110	
1,3-Dichlorobenzene	10.0	8.79	88	80-110	
1,4-Dichlorobenzene	10.0	8.76	88	82-110	
Bromodichloromethane	10.0	10.8	108	72-121	
Dichlorodifluoromethane	10.0	8.51	85	19-129	
1,1-Dichloroethane	10.0	11.6	116	82-115	*
1,2-Dichloroethane	10.0	10.4	104	71-127	
1,1-Dichloroethene	10.0	10.9	109	78-131	
1,2-Dichloropropane	10.0	10.0	100	81-115	
1,3-Dichloropropane	10.0	9.80	98	79-116	
2,2-Dichloropropane	10.0	9.61	96	50-129	
1,1-Dichloropropene	10.0	9.80	98	83-114	
Ethylbenzene	10.0	9.66	97	83-112	
Hexachlorobutadiene	10.0	7.26	73	36-134	
Isopropylbenzene	10.0	10.1	101	75-114	
p-Isopropyltoluene	10.0	9.33	93	74-120	
Methylene Chloride	10.0	13.1	131	66-131	
m-Xylene & p-Xylene	20.0	19.4	97	83-113	
Naphthalene	10.0	10.6	106	32-141	
n-Butylbenzene	10.0	9.44	94	66-125	
N-Propylbenzene	10.0	8.98	90	74-121	
o-Xylene	10.0	10.5	105	83-113	
sec-Butylbenzene	10.0	9.08	91	70-117	
Styrene	10.0	9.96	100	79-114	
tert-Butylbenzene	10.0	8.75	88	71-115	
1,1,1,2-Tetrachloroethane	10.0	11.6	116	72-116	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	68-118	
Tetrachloroethene	10.0	8.84	88	79-114	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXC4863.D
 Lab ID: LCS 240-49717/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	9.82	98	84-111	
trans-1,2-Dichloroethene	10.0	11.2	112	83-117	
trans-1,3-Dichloropropene	10.0	10.0	100	58-117	
1,2,3-Trichlorobenzene	10.0	9.86	99	54-126	
1,2,4-Trichlorobenzene	10.0	8.57	86	48-135	
1,1,1-Trichloroethane	10.0	9.85	99	74-118	
1,1,2-Trichloroethane	10.0	10.1	101	80-112	
Trichloroethene	10.0	10.0	100	76-117	
Trichlorofluoromethane	10.0	9.20	92	49-157	
1,2,3-Trichloropropane	10.0	9.14	91	73-129	
1,2,4-Trimethylbenzene	10.0	9.42	94	76-120	
1,3,5-Trimethylbenzene	10.0	9.02	90	72-118	
Vinyl chloride	10.0	9.65	97	53-127	
Bromochloromethane	10.0	11.0	110	77-120	
1,2-Dibromoethane	10.0	10.1	101	79-113	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXJ5592.D
 Lab ID: LCS 240-49859/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	10.0	9.91	99	83-112	
Bromobenzene	10.0	10.6	106	76-115	
Bromoform	10.0	10.8	108	40-131	
Bromomethane	10.0	12.7	127	11-185	
Carbon tetrachloride	10.0	9.93	99	66-128	
Chlorobenzene	10.0	9.72	97	85-110	
Chloroethane	10.0	10.6	106	25-153	
Chloroform	10.0	9.55	96	79-117	
Chloromethane	10.0	9.22	92	44-126	
2-Chlorotoluene	10.0	10.5	105	76-116	
4-Chlorotoluene	10.0	10.9	109	77-115	
cis-1,2-Dichloroethene	10.0	9.90	99	80-113	
cis-1,3-Dichloropropene	10.0	9.60	96	61-115	
Dibromomethane	10.0	10.3	103	81-120	
1,2-Dichlorobenzene	10.0	9.48	95	81-110	
1,3-Dichlorobenzene	10.0	9.77	98	80-110	
1,4-Dichlorobenzene	10.0	9.57	96	82-110	
Bromodichloromethane	10.0	10.1	101	72-121	
Dichlorodifluoromethane	10.0	8.66	87	19-129	
1,1-Dichloroethane	10.0	10.1	101	82-115	
1,2-Dichloroethane	10.0	9.65	97	71-127	
1,1-Dichloroethene	10.0	10.2	102	78-131	
1,2-Dichloropropane	10.0	10.0	100	81-115	
1,3-Dichloropropane	10.0	9.59	96	79-116	
2,2-Dichloropropane	10.0	9.72	97	50-129	
1,1-Dichloropropene	10.0	9.75	98	83-114	
Ethylbenzene	10.0	9.57	96	83-112	
Hexachlorobutadiene	10.0	9.38	94	36-134	
Isopropylbenzene	10.0	9.72	97	75-114	
p-Isopropyltoluene	10.0	10.6	106	74-120	
Methylene Chloride	10.0	11.2	112	66-131	
m-Xylene & p-Xylene	20.0	19.1	96	83-113	
Naphthalene	10.0	6.51	65	32-141	
n-Butylbenzene	10.0	9.44	94	66-125	
N-Propylbenzene	10.0	10.5	105	74-121	
o-Xylene	10.0	9.71	97	83-113	
sec-Butylbenzene	10.0	10.5	105	70-117	
Styrene	10.0	9.87	99	79-114	
tert-Butylbenzene	10.0	10.5	105	71-115	
1,1,1,2-Tetrachloroethane	10.0	10.0	100	72-116	
1,1,2,2-Tetrachloroethane	10.0	9.44	94	68-118	
Tetrachloroethene	10.0	9.48	95	79-114	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXJ5592.D
 Lab ID: LCS 240-49859/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	9.40	94	84-111	
trans-1,2-Dichloroethene	10.0	9.86	99	83-117	
trans-1,3-Dichloropropene	10.0	9.31	93	58-117	
1,2,3-Trichlorobenzene	10.0	7.81	78	54-126	
1,2,4-Trichlorobenzene	10.0	8.96	90	48-135	
1,1,1-Trichloroethane	10.0	9.51	95	74-118	
1,1,2-Trichloroethane	10.0	9.86	99	80-112	
Trichloroethene	10.0	10.1	101	76-117	
Trichlorofluoromethane	10.0	10.1	101	49-157	
1,2,3-Trichloropropane	10.0	10.1	101	73-129	
1,2,4-Trimethylbenzene	10.0	10.8	108	76-120	
1,3,5-Trimethylbenzene	10.0	10.8	108	72-118	
Vinyl chloride	10.0	9.77	98	53-127	
Bromochloromethane	10.0	9.74	97	77-120	
1,2-Dibromoethane	10.0	9.39	94	79-113	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab File ID: UXC4864.D Lab Sample ID: MB 240-49717/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: A3UX15 Date Analyzed: 07/03/2012 16:09
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-49717/4	UXC4863.D	07/03/2012 15:46
MW-101 (20120622)	240-12605-1	UXC4865.D	07/03/2012 16:32
MW-1A (20120622)	240-12605-2	UXC4866.D	07/03/2012 16:55

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab File ID: UXJ5594.D Lab Sample ID: MB 240-49859/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: A3UX11 Date Analyzed: 07/05/2012 11:44
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-49859/4	UXJ5592.D	07/05/2012 10:59
MW-102A(20120622)	240-12605-3	UXJ5599.D	07/05/2012 13:38
TRIP BLANK	240-12605-4	UXJ5600.D	07/05/2012 14:00

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab File ID: BFB989.D BFB Injection Date: 06/19/2012
Instrument ID: A3UX11 BFB Injection Time: 12:15
Analysis Batch No.: 47806

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.7
75	30.0 - 60.0 % of mass 95	45.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	82.3
175	5.0 - 9.0 % of mass 174	6.7 (8.2) 1
176	95.0 - 101.0 % of mass 174	80.1 (97.4) 1
177	5.0 - 9.0 % of mass 176	5.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-47806/4	UXJ5152.D	06/19/2012	13:56
	STD8260 240-47806/5	UXJ5153.D	06/19/2012	14:18
	STD8260 240-47806/6	UXJ5154.D	06/19/2012	14:41
	STD8260 240-47806/7	UXJ5155.D	06/19/2012	15:04
	STD8260 240-47806/8	UXJ5156.D	06/19/2012	15:26
	STD8260 240-47806/9	UXJ5157.D	06/19/2012	15:49
	STD6 240-47806/10	UXJ5158.D	06/19/2012	16:12
	STD5 240-47806/11	UXJ5159.D	06/19/2012	16:35
	STD4 240-47806/12	UXJ5160.D	06/19/2012	16:57
	STD3 240-47806/13	UXJ5161.D	06/19/2012	17:20
	STD2 240-47806/14	UXJ5162.D	06/19/2012	17:43
	STD1 240-47806/15	UXJ5163.D	06/19/2012	18:05
	ICV 240-47806/22	UXJ5170.D	06/19/2012	20:44

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab File ID: BFB005B.D BFB Injection Date: 07/05/2012
Instrument ID: A3UX11 BFB Injection Time: 09:49
Analysis Batch No.: 49859

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.0
75	30.0 - 60.0 % of mass 95	45.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	87.4
175	5.0 - 9.0 % of mass 174	7.0 (8.0) 1
176	95.0 - 101.0 % of mass 174	84.8 (97.0) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-49859/2	UXJ5590.D	07/05/2012	10:13
	CCV 240-49859/3	UXJ5591.D	07/05/2012	10:36
	LCS 240-49859/4	UXJ5592.D	07/05/2012	10:59
	MB 240-49859/5	UXJ5594.D	07/05/2012	11:44
MW-102A(20120622)	240-12605-3	UXJ5599.D	07/05/2012	13:38
TRIP BLANK	240-12605-4	UXJ5600.D	07/05/2012	14:00

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab File ID: BFB951.D BFB Injection Date: 04/29/2012
Instrument ID: A3UX15 BFB Injection Time: 09:08
Analysis Batch No.: 42081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.0
75	30.0 - 60.0 % of mass 95	52.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.2 (0.3) 1
174	50.0 - 120.00 % of mass 95	85.7
175	5.0 - 9.0 % of mass 174	5.9 (6.9) 1
176	95.0 - 101.0 % of mass 174	83.5 (97.5) 1
177	5.0 - 9.0 % of mass 176	5.4 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-42081/2	UXC3076.D	04/29/2012	11:24
	STD8260 240-42081/3	UXC3077.D	04/29/2012	11:47
	STD8260 240-42081/4	UXC3078.D	04/29/2012	12:09
	STD8260 240-42081/5	UXC3079.D	04/29/2012	12:32
	STD8260 240-42081/6	UXC3080.D	04/29/2012	12:54
	STD8260 240-42081/7	UXC3081.D	04/29/2012	13:17
	STD6 240-42081/8	UXC3082.D	04/29/2012	13:40
	STD5 240-42081/9	UXC3083.D	04/29/2012	14:02
	STD4 240-42081/10	UXC3084.D	04/29/2012	14:25
	STD3 240-42081/11	UXC3085.D	04/29/2012	14:48
	STD2 240-42081/12	UXC3086.D	04/29/2012	15:10
	STD1 240-42081/13	UXC3087.D	04/29/2012	15:33
	ICV 240-42081/14	UXC3088.D	04/29/2012	15:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab File ID: BFB006C.D BFB Injection Date: 07/03/2012
Instrument ID: A3UX15 BFB Injection Time: 14:39
Analysis Batch No.: 49717

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.3
75	30.0 - 60.0 % of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.3 (0.3) 1
174	50.0 - 120.00 % of mass 95	86.9
175	5.0 - 9.0 % of mass 174	5.7 (6.5) 1
176	95.0 - 101.0 % of mass 174	85.4 (98.2) 1
177	5.0 - 9.0 % of mass 176	5.3 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-49717/2	UXC4861.D	07/03/2012	15:01
	CCV 240-49717/3	UXC4862.D	07/03/2012	15:24
	LCS 240-49717/4	UXC4863.D	07/03/2012	15:46
	MB 240-49717/5	UXC4864.D	07/03/2012	16:09
MW-101(20120622)	240-12605-1	UXC4865.D	07/03/2012	16:32
MW-1A(20120622)	240-12605-2	UXC4866.D	07/03/2012	16:55

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Sample No.: STD8260 240-47806/6 Date Analyzed: 06/19/2012 14:41
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ5154.D Heated Purge: (Y/N) N
 Calibration ID: 9354

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1726050	5.12	1252017	7.79	392921	10.03
UPPER LIMIT		3452100	5.62	2504034	8.29	785842	10.53
LOWER LIMIT		863025	4.62	626009	7.29	196461	9.53
LAB SAMPLE ID		CLIENT SAMPLE ID					
ICV 240-47806/22		1708401	5.12	1248350	7.79	395805	10.03
CCVIS 240-49859/2		1418836	5.12	1056961	7.79	342901	10.03

FB = Fluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = \pm 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Sample No.: CCVIS 240-49859/2 Date Analyzed: 07/05/2012 10:13
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ5590.D Heated Purge: (Y/N) N
 Calibration ID: 9358

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1418836	5.12	1056961	7.79	342901	10.03
UPPER LIMIT		2837672	5.62	2113922	8.29	685802	10.53
LOWER LIMIT		709418	4.62	528481	7.29	171451	9.53
LAB SAMPLE ID		CLIENT SAMPLE ID					
CCV 240-49859/3		1315714	5.12	996383	7.79	316249	10.03
LCS 240-49859/4		1311397	5.12	992262	7.79	307127	10.03
MB 240-49859/5		1295459	5.12	968162	7.79	310363	10.03
240-12605-3	MW-102A(20120622)	1283606	5.12	985038	7.79	310436	10.03
240-12605-4	TRIP BLANK	1286509	5.12	967807	7.79	307741	10.03

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = \pm 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Sample No.: STD8260 240-42081/4 Date Analyzed: 04/29/2012 12:09
 Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXC3078.D Heated Purge: (Y/N) N
 Calibration ID: 8421

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1555823	4.66	1052295	7.30	548707	9.51
UPPER LIMIT		3111646	5.16	2104590	7.80	1097414	10.01
LOWER LIMIT		777912	4.16	526148	6.80	274354	9.01
LAB SAMPLE ID		CLIENT SAMPLE ID					
ICV 240-42081/14		1579447	4.67	1033620	7.30	538234	9.51
CCVIS 240-49717/2		1204636	4.66	759249	7.30	456431	9.51

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = \pm 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Sample No.: CCVIS 240-49717/2 Date Analyzed: 07/03/2012 15:01
 Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXC4861.D Heated Purge: (Y/N) N
 Calibration ID: 8423

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1204636	4.66	759249	7.30	456431	9.51
UPPER LIMIT		2409272	5.16	1518498	7.80	912862	10.01
LOWER LIMIT		602318	4.16	379625	6.80	228216	9.01
LAB SAMPLE ID		CLIENT SAMPLE ID					
CCV 240-49717/3		1301499	4.66	814196	7.30	442898	9.51
LCS 240-49717/4		1197923	4.66	756588	7.30	464763	9.51
MB 240-49717/5		1146086	4.66	689237	7.30	374915	9.51
240-12605-1	MW-101 (20120622)	1219253	4.66	786269	7.30	406170	9.51
240-12605-2	MW-1A (20120622)	1069464	4.66	643847	7.30	367356	9.51

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = \pm 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: MW-101(20120622) Lab Sample ID: 240-12605-1

Matrix: Water Lab File ID: UXC4865.D

Analysis Method: 8260B Date Collected: 06/22/2012 09:55

Sample wt/vol: 5(mL) Date Analyzed: 07/03/2012 16:32

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
75-00-3	Chloroethane	1.0	U	1.0	0.29
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.58	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	2.8		1.0	0.31
75-34-3	1,1-Dichloroethane	0.32	J *	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
75-43-4	Dichlorofluoromethane	20		2.0	0.42
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: MW-101(20120622) Lab Sample ID: 240-12605-1

Matrix: Water Lab File ID: UXC4865.D

Analysis Method: 8260B Date Collected: 06/22/2012 09:55

Sample wt/vol: 5(mL) Date Analyzed: 07/03/2012 16:32

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
103-65-1	N-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	0.33	J	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.27
79-01-6	Trichloroethene	1.8		1.0	0.17
75-69-4	Trichlorofluoromethane	18		1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.096
75-01-4	Vinyl chloride	1.0	U	1.0	0.22
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		66-117
1868-53-7	Dibromofluoromethane (Surr)	101		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		63-129
2037-26-5	Toluene-d8 (Surr)	96		74-115

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4865.D
 Lims ID: 240-12605-B-1 Client ID: MW-101(20120622)
 Inject. Date: 03-Jul-2012 16:32:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 240-0011300-006
 Misc. Info.: C20703A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 5
 Lims Batch ID: 49717 Lims Sample ID: 6
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\8260_15.m
 Last Update: 05-Jul-2012 08:02:25 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-17

First Level Reviewer: evansle

Date: 05-Jul-2012 07:45:57

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.656	0.0	99	1219253	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	786269	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	406170	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	64	341621	9.00	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.384	4.383	0.001	0	419485	9.17	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	94	1086682	8.54	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.392	8.403	-0.011	94	327321	8.18	
12 Dichlorodifluoromethane	85	1.158	1.158	0.0	96	105594	2.78	
13 Chloromethane	50		1.277					
14 Vinyl chloride	62		1.360					
15 Bromomethane	94		1.585					
16 Chloroethane	64		1.668					
17 Dichlorofluoromethane	67	1.822	1.810	0.012	83	1187976	20.3	
18 Trichlorofluoromethane	101	1.858	1.858	0.0	87	941383	18.3	
21 1,1-Dichloroethene	96		2.261					
30 Methylene Chloride	84		2.652					
33 trans-1,2-Dichloroethene	96		2.877					
36 1,1-Dichloroethane	63	3.233	3.233	0.0	53	22737	0.3168	
42 cis-1,2-Dichloroethene	96	3.708	3.708	0.0	75	25978	0.5787	
43 2,2-Dichloropropane	77		3.708					
47 Chlorobromomethane	128		3.909					
49 Chloroform	83		3.968					
50 1,1,1-Trichloroethane	97		4.123					
53 Carbon tetrachloride	117		4.253					
52 1,1-Dichloropropene	75		4.253					
55 Benzene	78		4.431					
56 1,2-Dichloroethane	62		4.443					
60 Trichloroethene	130	4.965	4.965	0.0	97	74534	1.78	
62 1,2-Dichloropropane	63		5.154					
65 Dibromomethane	93		5.261					
67 Dichlorobromomethane	83		5.391					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
70 cis-1,3-Dichloropropene	75		5.783					
72 Toluene	91		6.067					
73 trans-1,3-Dichloropropene	75		6.269					
75 1,1,2-Trichloroethane	97		6.435					
77 Tetrachloroethene	164	6.554	6.554	0.0	80	9977	0.3300	
76 1,3-Dichloropropane	76		6.577					
79 Chlorodibromomethane	129		6.779					
123 Ethylene Dibromide	107		6.874					
82 Chlorobenzene	112		7.324					
83 1,1,1,2-Tetrachloroethane	131		7.407					
84 Ethylbenzene	106		7.431					
10 m-Xylene & p-Xylene	91		7.538					
85 o-Xylene	106		7.905					
86 Styrene	104		7.917					
87 Bromoform	173		8.095					
88 Isopropylbenzene	105		8.261					
91 Bromobenzene	156		8.534					
90 1,1,2,2-Tetrachloroethane	83		8.546					
92 1,2,3-Trichloropropane	110		8.581					
94 N-Propylbenzene	120		8.653					
95 2-Chlorotoluene	126		8.724					
96 1,3,5-Trimethylbenzene	105		8.819					
104 4-Chlorotoluene	91		8.830					
97 tert-Butylbenzene	119		9.127					
98 1,2,4-Trimethylbenzene	105		9.174					
99 sec-Butylbenzene	105		9.340					
100 1,3-Dichlorobenzene	146		9.435					
101 4-Isopropyltoluene	119		9.494					
102 1,4-Dichlorobenzene	146		9.530					
105 n-Butylbenzene	91		9.886					
106 1,2-Dichlorobenzene	146		9.886					
109 1,2,4-Trichlorobenzene	180		11.463					
110 Hexachlorobutadiene	225		11.641					
111 Naphthalene	128		11.700					
112 1,2,3-Trichlorobenzene	180		11.937					

Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4865.D

Injection Date: 03-Jul-2012 16:32:30

Limit Group: MSV 8260B ICAL

Client ID: MW-101(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

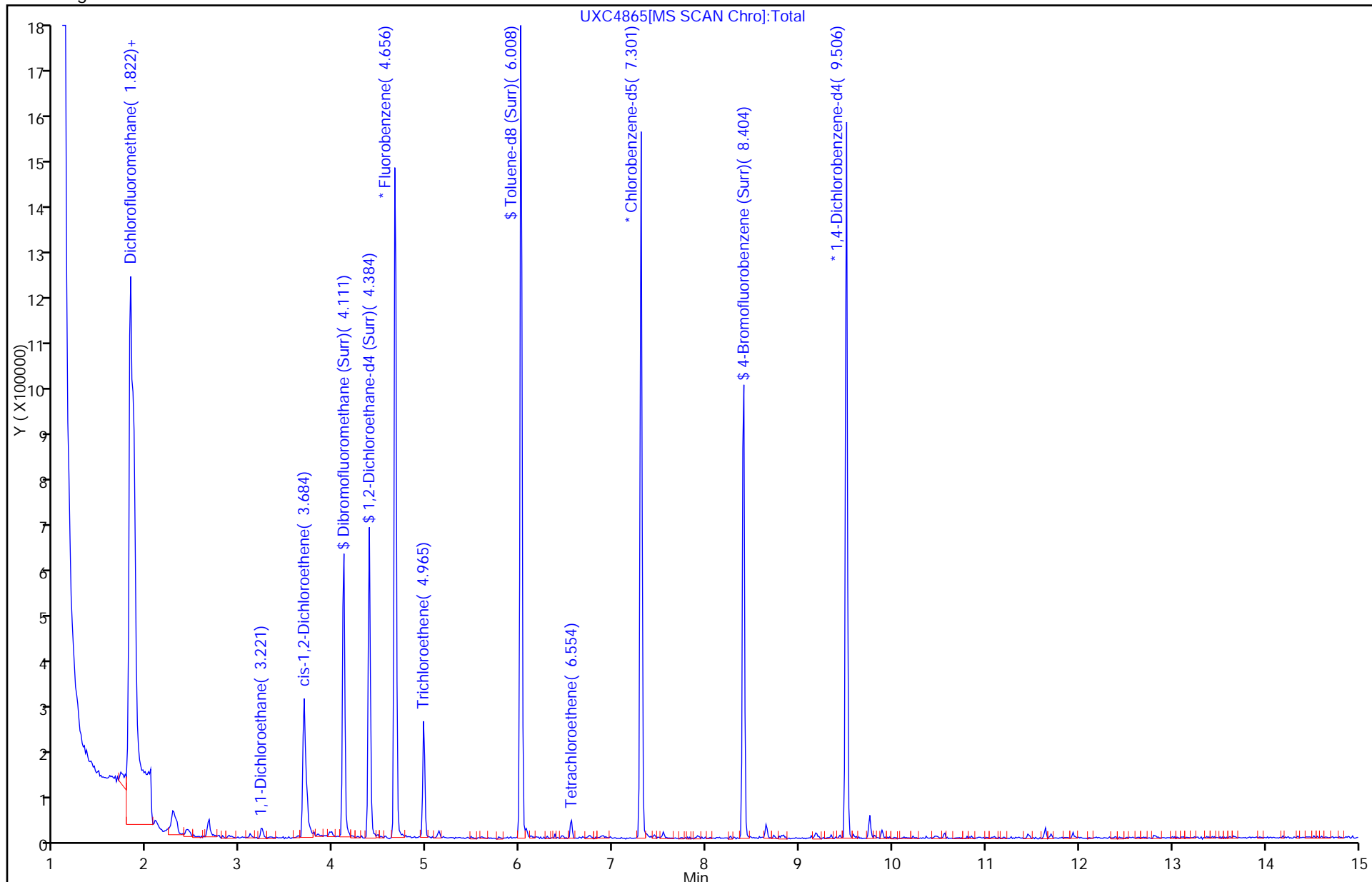
Lims Sample ID: 6

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 03-Jul-2012 16:32:30

Limit Group: MSV 8260B ICAL

Client ID: MW-101(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

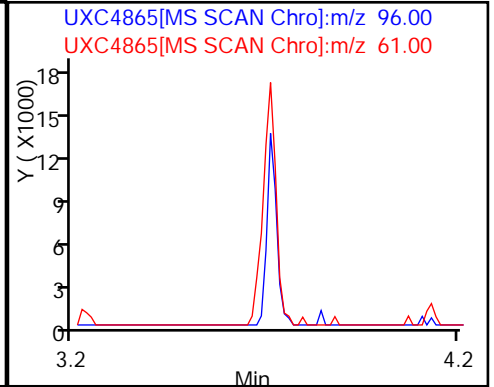
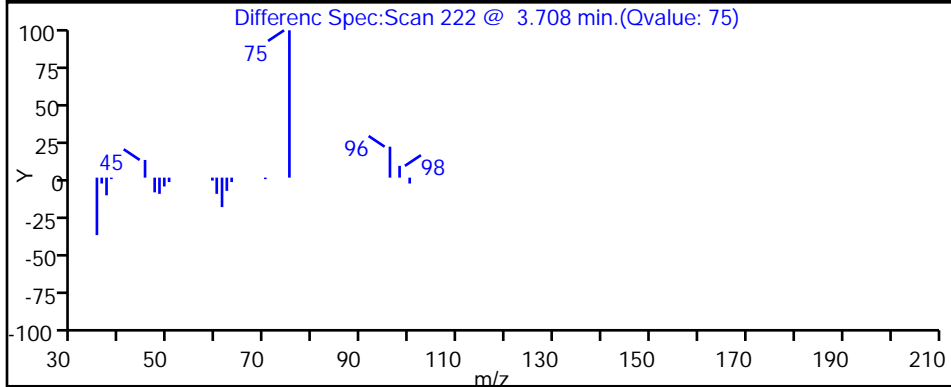
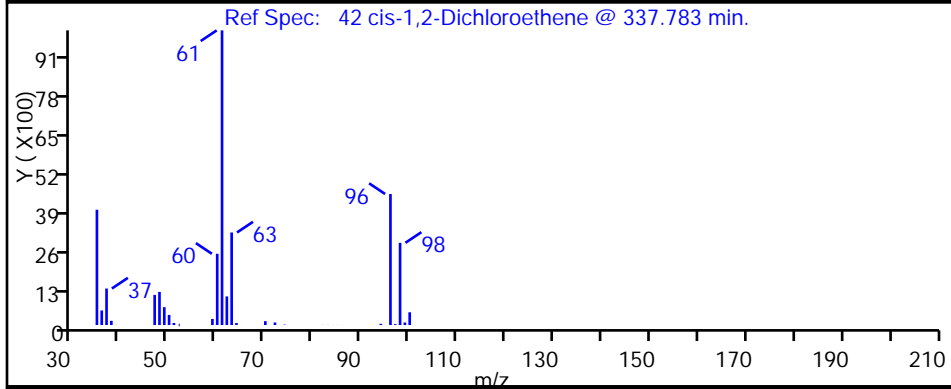
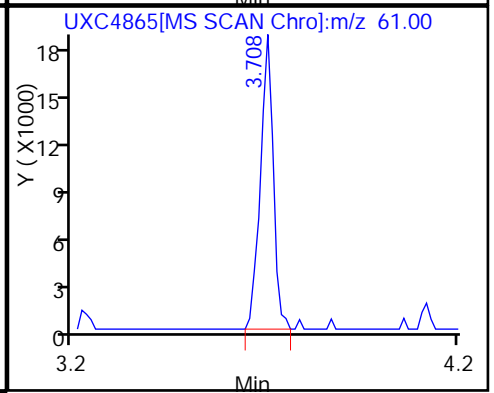
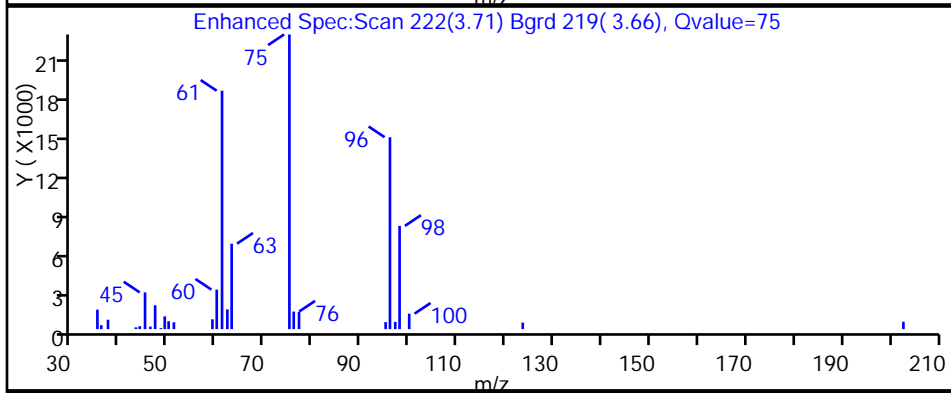
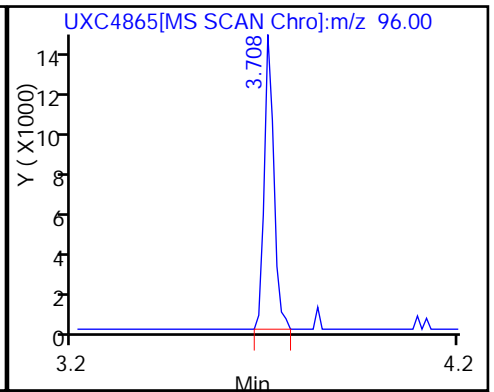
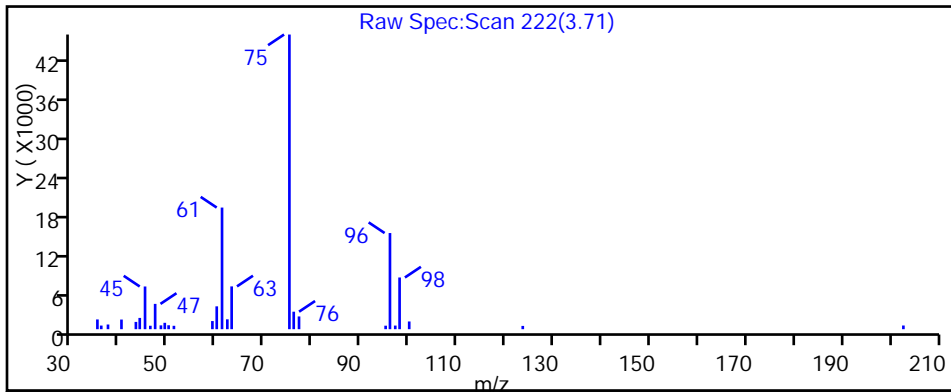
Lims Sample ID: 6

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

42 cis-1,2-Dichloroethene



Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4865.D

Injection Date: 03-Jul-2012 16:32:30

Limit Group: MSV 8260B ICAL

Client ID: MW-101(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

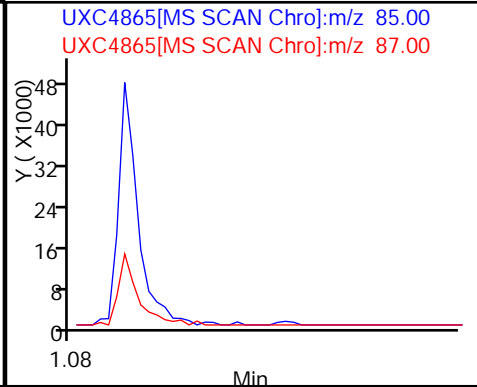
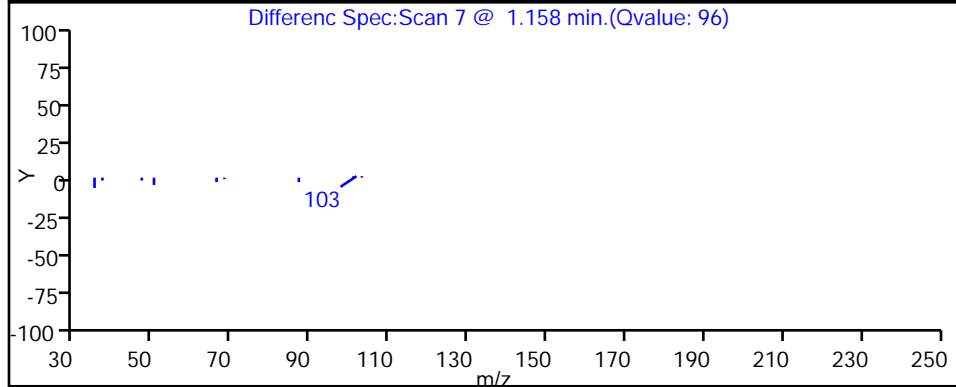
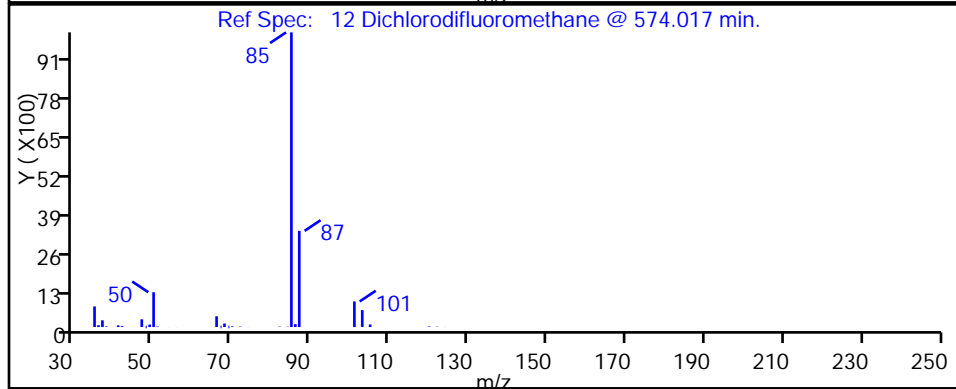
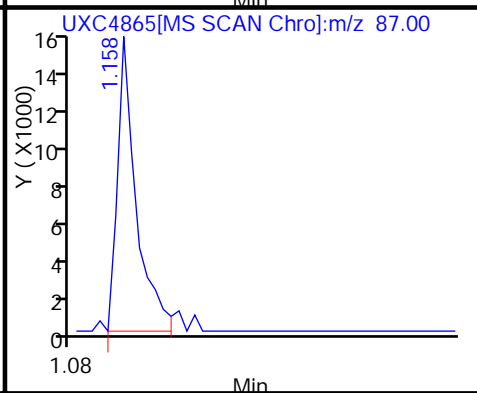
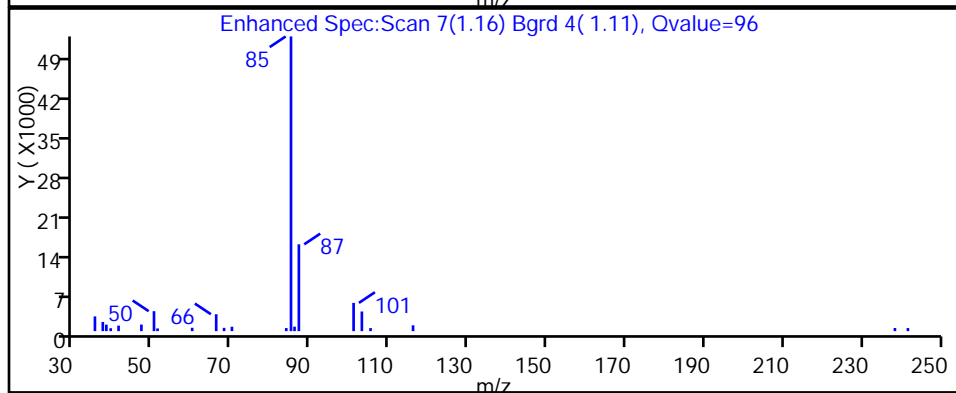
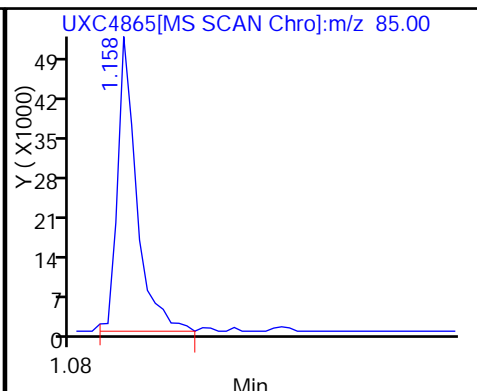
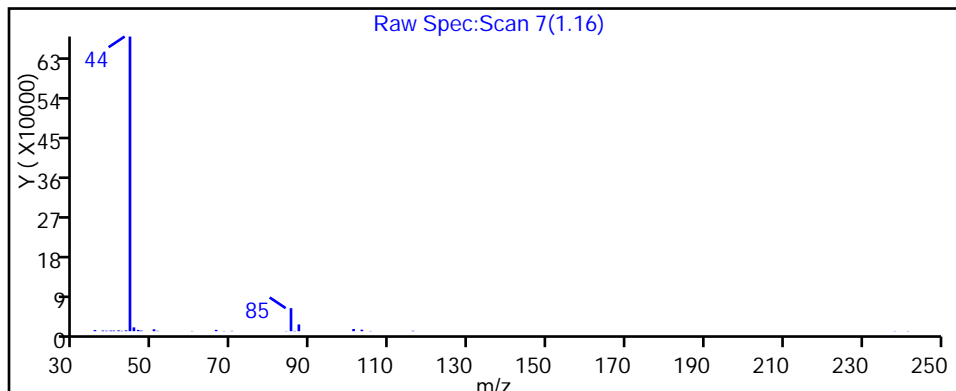
Lims Sample ID: 6

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

12 Dichlorodifluoromethane



Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4865.D

Injection Date: 03-Jul-2012 16:32:30

Limit Group: MSV 8260B ICAL

Client ID: MW-101(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

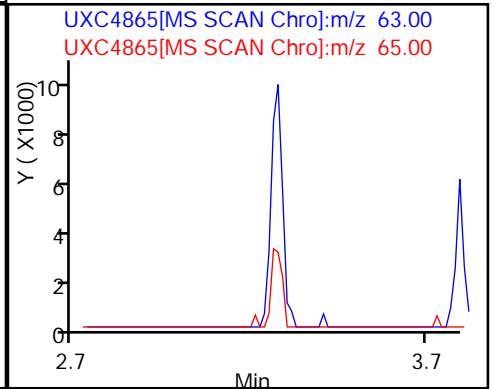
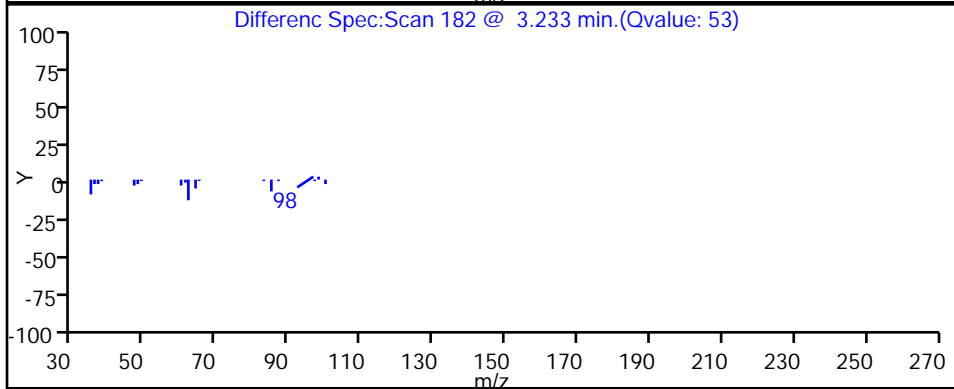
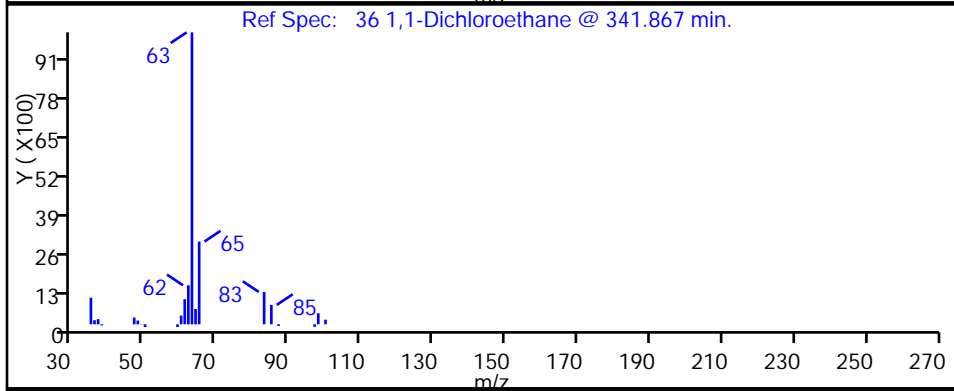
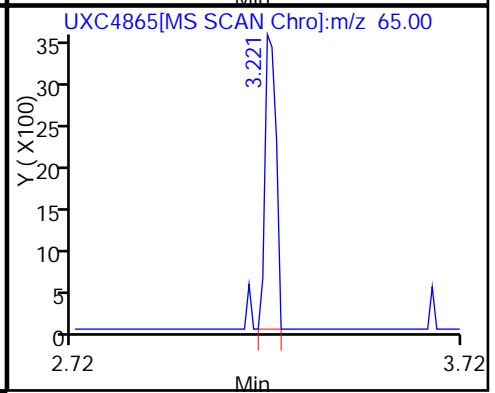
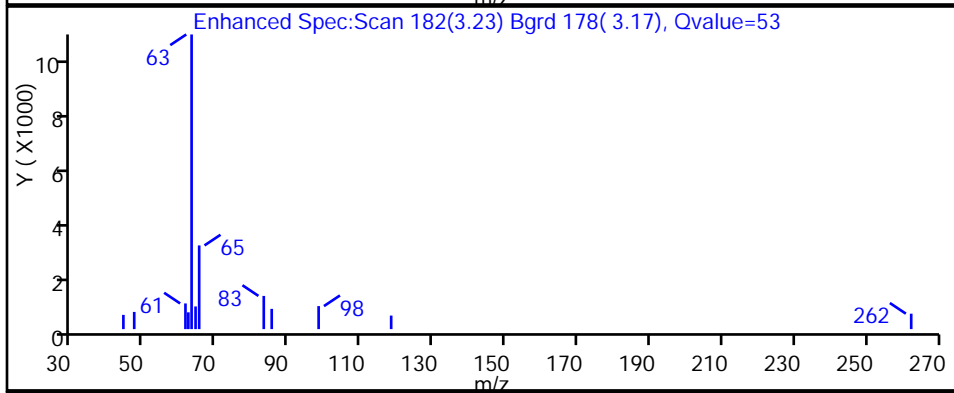
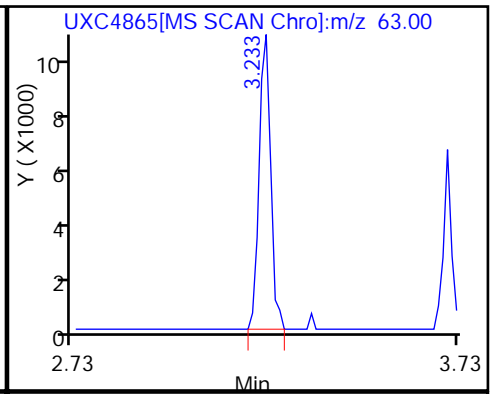
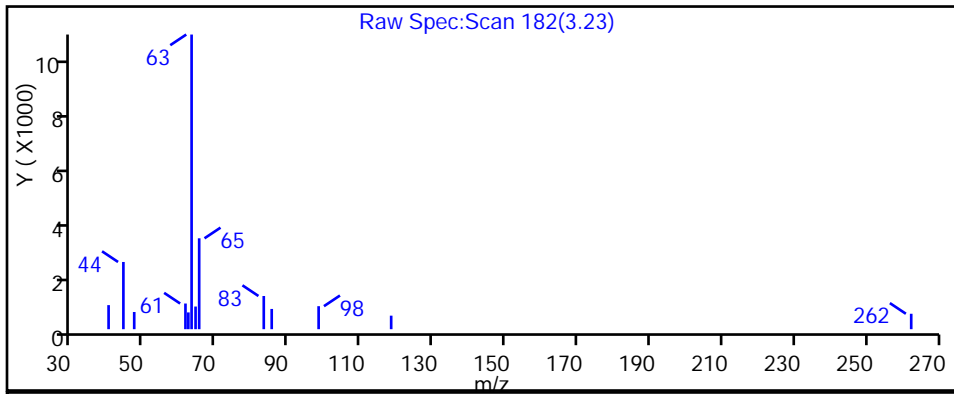
Lims Sample ID: 6

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

36 1,1-Dichloroethane



Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Nccchrom\ChromData\A3UX15\20120703-11300.b\UXC4865.D

Injection Date: 03-Jul-2012 16:32:30

Limit Group: MSV 8260B ICAL

Client ID: MW-101(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

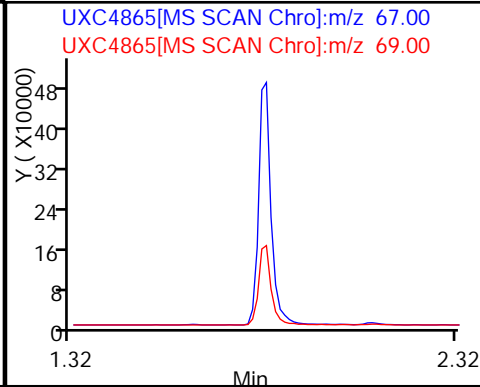
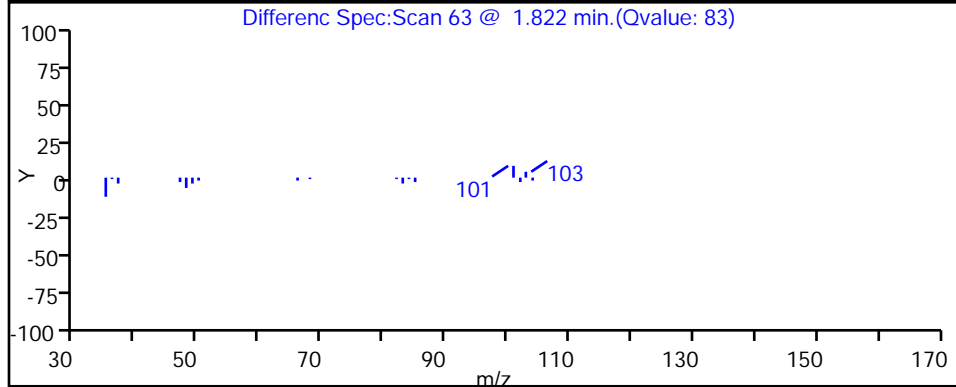
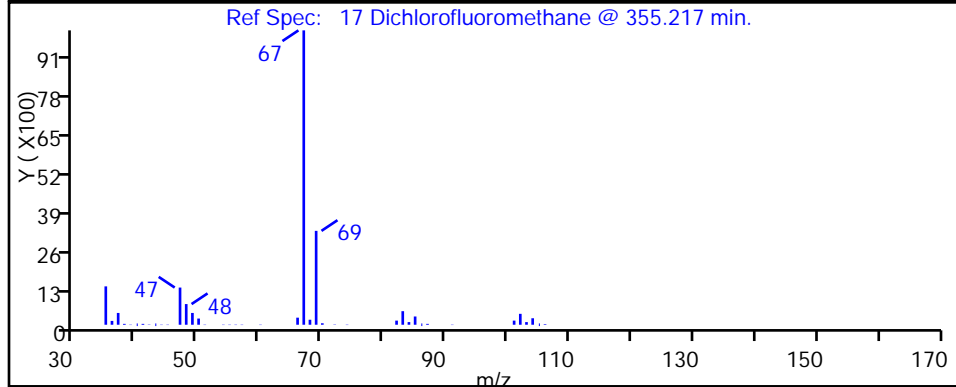
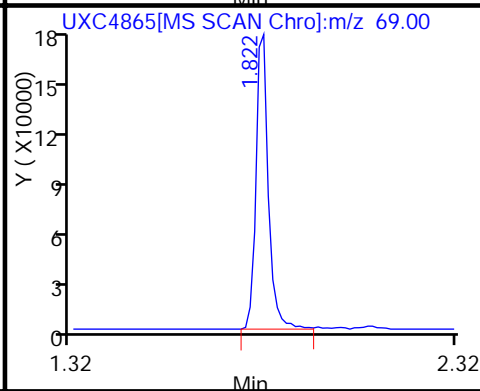
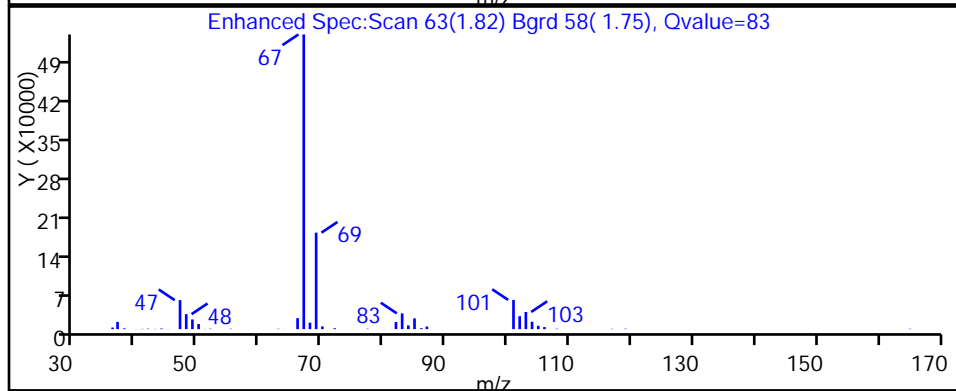
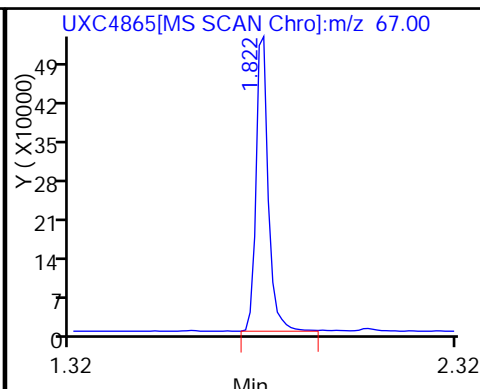
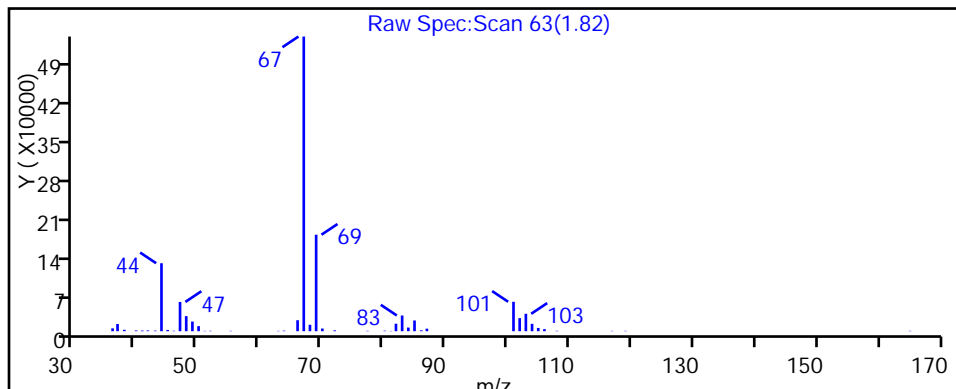
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Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

17 Dichlorofluoromethane



Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 03-Jul-2012 16:32:30

Limit Group: MSV 8260B ICAL

Client ID: MW-101(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

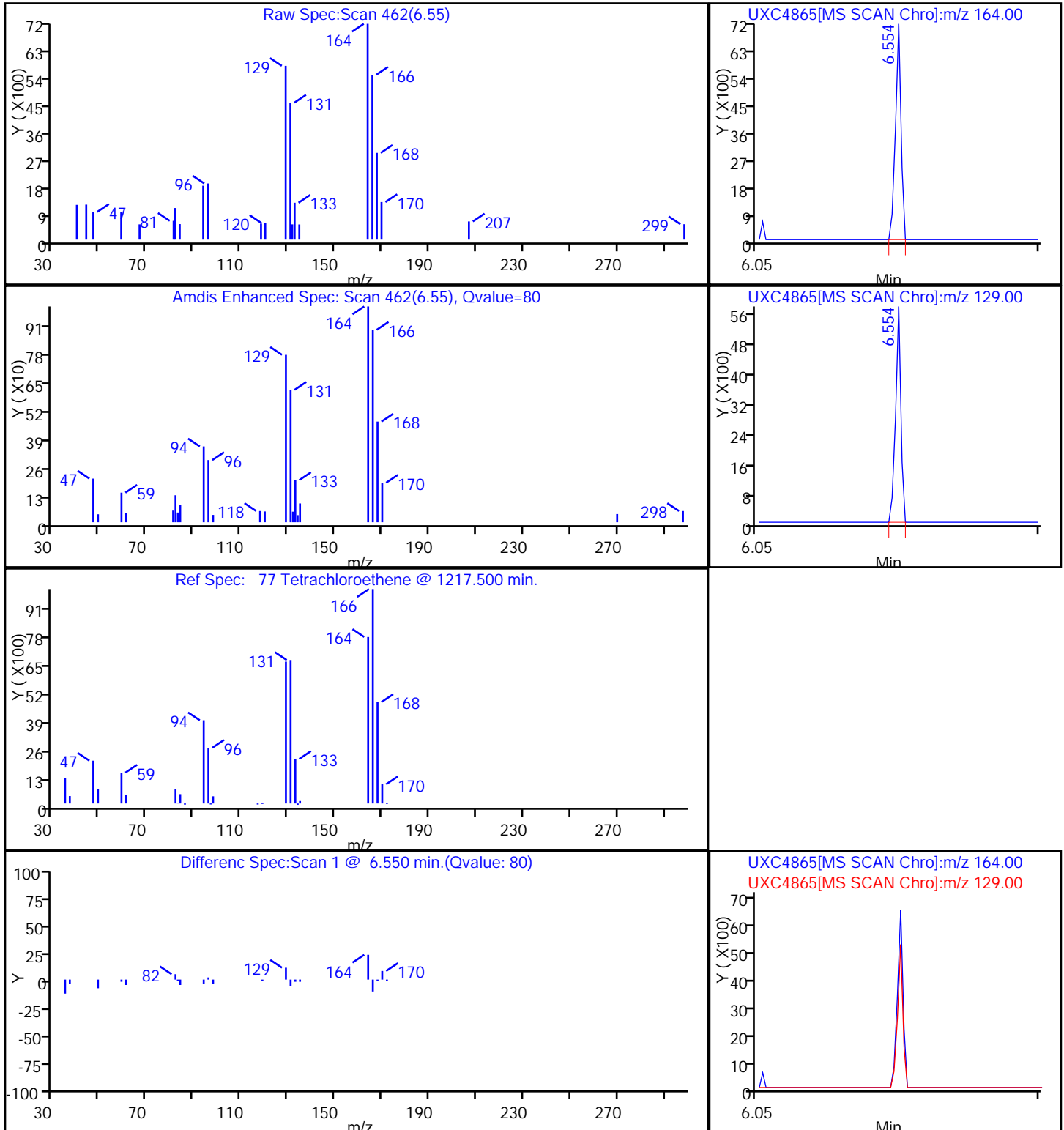
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Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

77 Tetrachloroethene



Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

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Instrument ID: A3UX15

Lims Batch ID: 49717

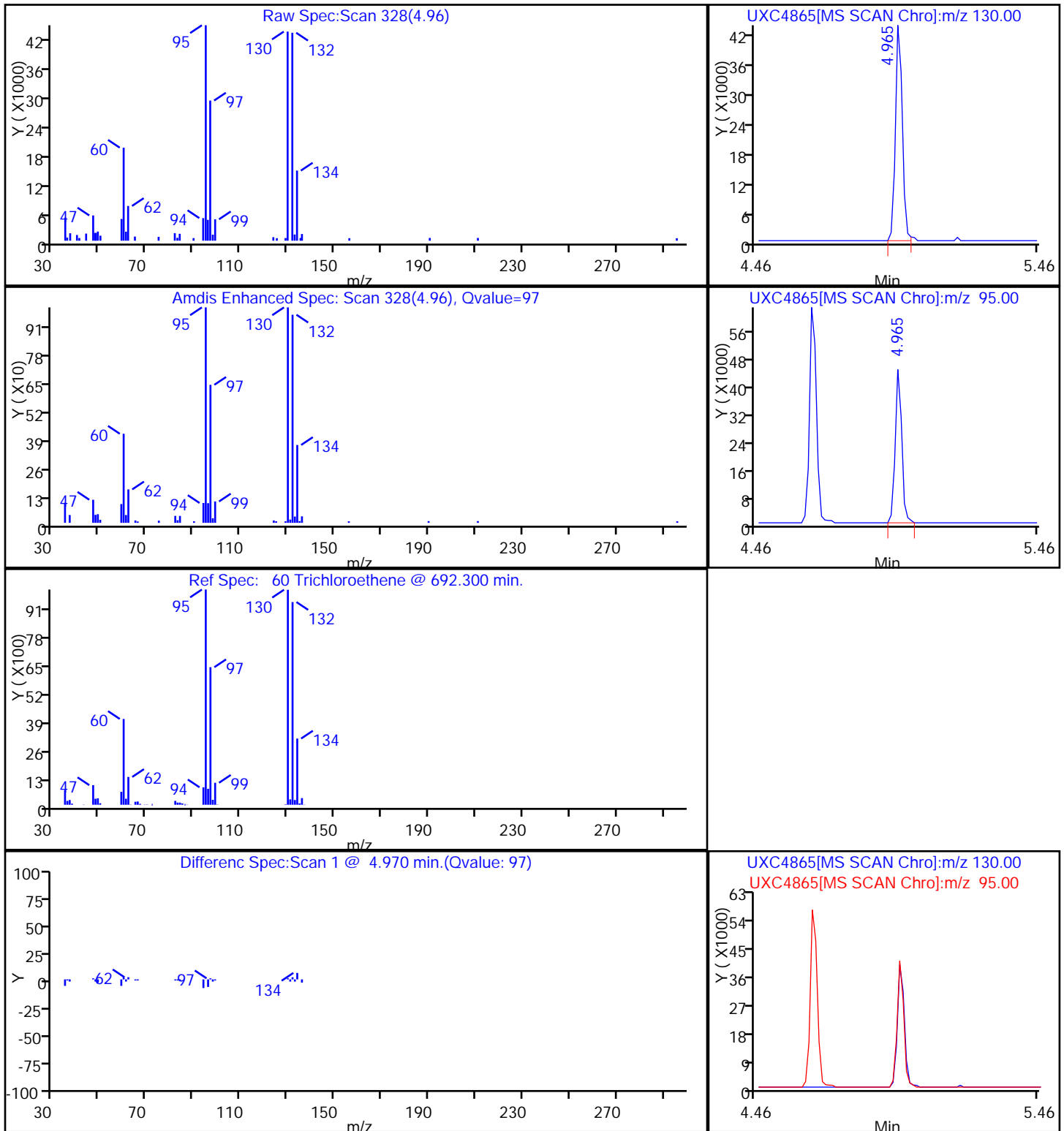
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Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

60 Trichloroethene



Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 03-Jul-2012 16:32:30

Limit Group: MSV 8260B ICAL

Client ID: MW-101(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

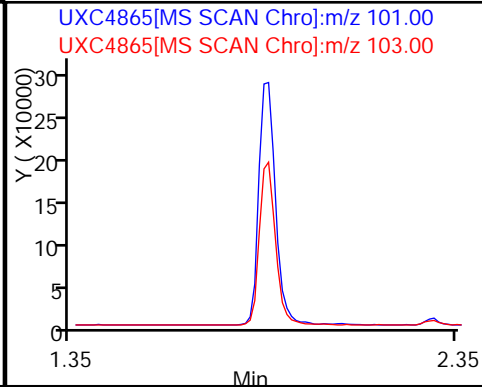
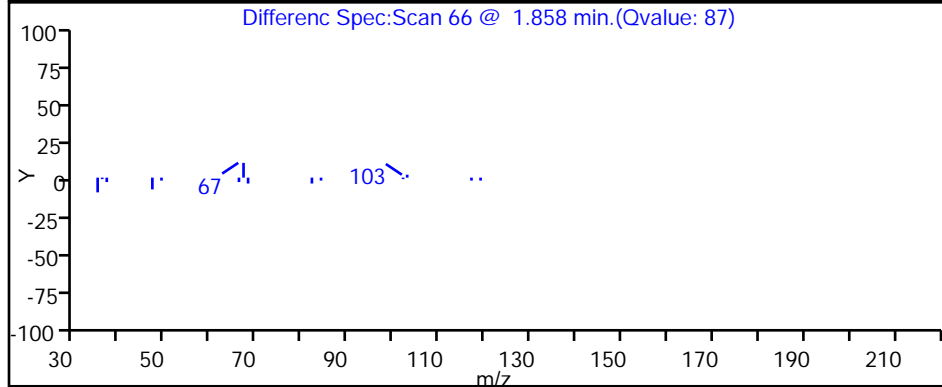
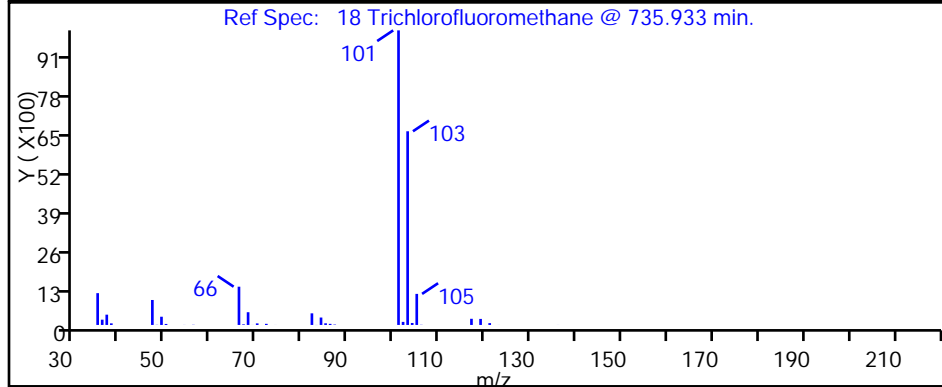
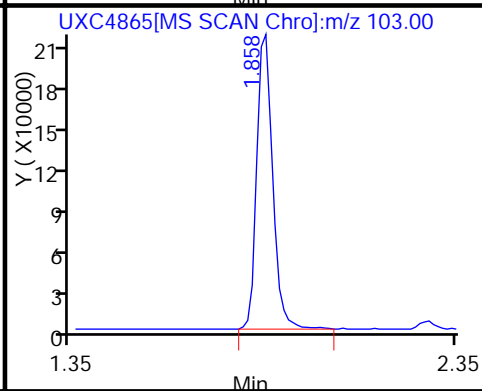
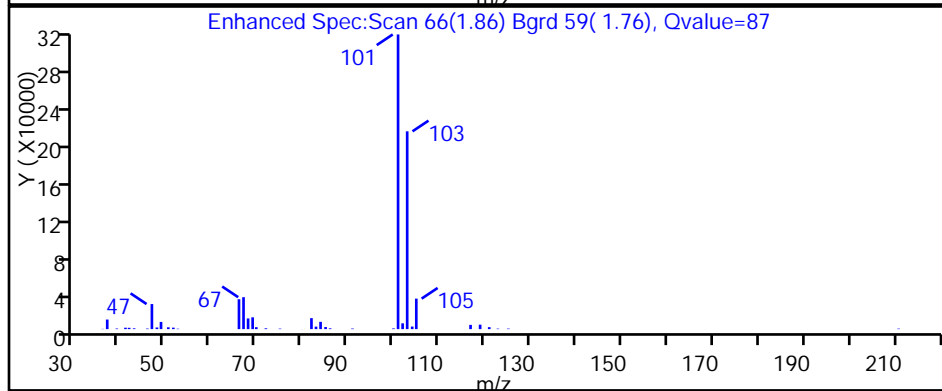
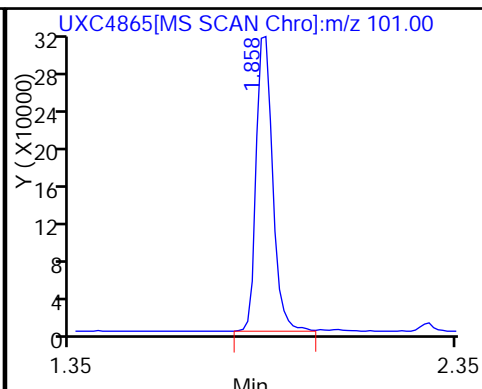
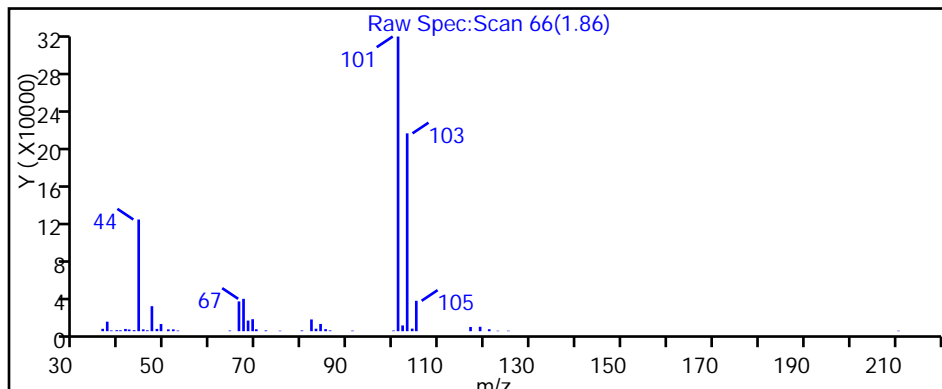
Lims Sample ID: 6

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

18 Trichlorofluoromethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: MW-1A(20120622) Lab Sample ID: 240-12605-2

Matrix: Water Lab File ID: UXC4866.D

Analysis Method: 8260B Date Collected: 06/21/2012 17:05

Sample wt/vol: 5(mL) Date Analyzed: 07/03/2012 16:55

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
75-00-3	Chloroethane	1.0	U	1.0	0.29
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.55	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.75	J	1.0	0.31
75-34-3	1,1-Dichloroethane	0.65	J *	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
75-43-4	Dichlorofluoromethane	23		2.0	0.42
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Client Sample ID: MW-1A(20120622) Lab Sample ID: 240-12605-2
 Matrix: Water Lab File ID: UXC4866.D
 Analysis Method: 8260B Date Collected: 06/21/2012 17:05
 Sample wt/vol: 5(mL) Date Analyzed: 07/03/2012 16:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 49717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
103-65-1	N-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.27
79-01-6	Trichloroethene	0.88	J	1.0	0.17
75-69-4	Trichlorofluoromethane	5.0		1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.096
75-01-4	Vinyl chloride	1.0	U	1.0	0.22
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		66-117
1868-53-7	Dibromofluoromethane (Surr)	113		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		63-129
2037-26-5	Toluene-d8 (Surr)	99		74-115

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4866.D
 Lims ID: 240-12605-B-2 Client ID: MW-1A(20120622)
 Inject. Date: 03-Jul-2012 16:55:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 240-0011300-007
 Misc. Info.: C20703A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 6
 Lims Batch ID: 49717 Lims Sample ID: 7
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\8260_15.m
 Last Update: 05-Jul-2012 08:02:25 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-17

First Level Reviewer: evansle

Date: 05-Jul-2012 07:46:28

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.656	0.0	99	1069464	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	84	643847	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	367356	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	59	337426	10.1	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	398582	9.93	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	922099	8.85	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	95	277069	8.46	
12 Dichlorodifluoromethane	85	1.158	1.158	0.0	82	24927	0.7484	
13 Chloromethane	50		1.277					
14 Vinyl chloride	62		1.360					
15 Bromomethane	94		1.585					
16 Chloroethane	64		1.668					
17 Dichlorofluoromethane	67	1.810	1.810	0.0	83	1200707	23.4	
18 Trichlorofluoromethane	101	1.846	1.858	-0.012	85	225405	4.99	
21 1,1-Dichloroethene	96		2.261					
30 Methylene Chloride	84		2.652					
33 trans-1,2-Dichloroethene	96		2.877					
36 1,1-Dichloroethane	63	3.233	3.233	0.0	79	40849	0.6488	
42 cis-1,2-Dichloroethene	96	3.707	3.708	-0.001	56	21736	0.5520	
43 2,2-Dichloropropane	77		3.708					
47 Chlorobromomethane	128		3.909					
49 Chloroform	83		3.968					
50 1,1,1-Trichloroethane	97		4.123					
53 Carbon tetrachloride	117		4.253					
52 1,1-Dichloropropene	75		4.253					
55 Benzene	78		4.431					
56 1,2-Dichloroethane	62		4.443					
60 Trichloroethene	130	4.964	4.965	-0.001	92	32346	0.8783	
62 1,2-Dichloropropane	63		5.154					
65 Dibromomethane	93		5.261					
67 Dichlorobromomethane	83		5.391					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
70 cis-1,3-Dichloropropene	75		5.783					
72 Toluene	91		6.067					
73 trans-1,3-Dichloropropene	75		6.269					
75 1,1,2-Trichloroethane	97		6.435					
77 Tetrachloroethene	164	6.553	6.554	-0.001	76	6931	0.2799	
76 1,3-Dichloropropane	76		6.577					
79 Chlorodibromomethane	129		6.779					
123 Ethylene Dibromide	107		6.874					
82 Chlorobenzene	112		7.324					
83 1,1,1,2-Tetrachloroethane	131		7.407					
84 Ethylbenzene	106		7.431					
10 m-Xylene & p-Xylene	91		7.538					
85 o-Xylene	106		7.905					
86 Styrene	104		7.917					
87 Bromoform	173		8.095					
88 Isopropylbenzene	105		8.261					
91 Bromobenzene	156		8.534					
90 1,1,2,2-Tetrachloroethane	83		8.546					
92 1,2,3-Trichloropropane	110		8.581					
94 N-Propylbenzene	120		8.653					
95 2-Chlorotoluene	126		8.724					
96 1,3,5-Trimethylbenzene	105		8.819					
104 4-Chlorotoluene	91		8.830					
97 tert-Butylbenzene	119		9.127					
98 1,2,4-Trimethylbenzene	105		9.174					
99 sec-Butylbenzene	105		9.340					
100 1,3-Dichlorobenzene	146		9.435					
101 4-Isopropyltoluene	119		9.494					
102 1,4-Dichlorobenzene	146		9.530					
105 n-Butylbenzene	91		9.886					
106 1,2-Dichlorobenzene	146		9.886					
109 1,2,4-Trichlorobenzene	180		11.463					
110 Hexachlorobutadiene	225		11.641					
111 Naphthalene	128		11.700					
112 1,2,3-Trichlorobenzene	180		11.937					

Report Date: 05-Jul-2012 08:02:27

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4866.D

Injection Date: 03-Jul-2012 16:55:30

Limit Group: MSV 8260B ICAL

Client ID: MW-1A(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

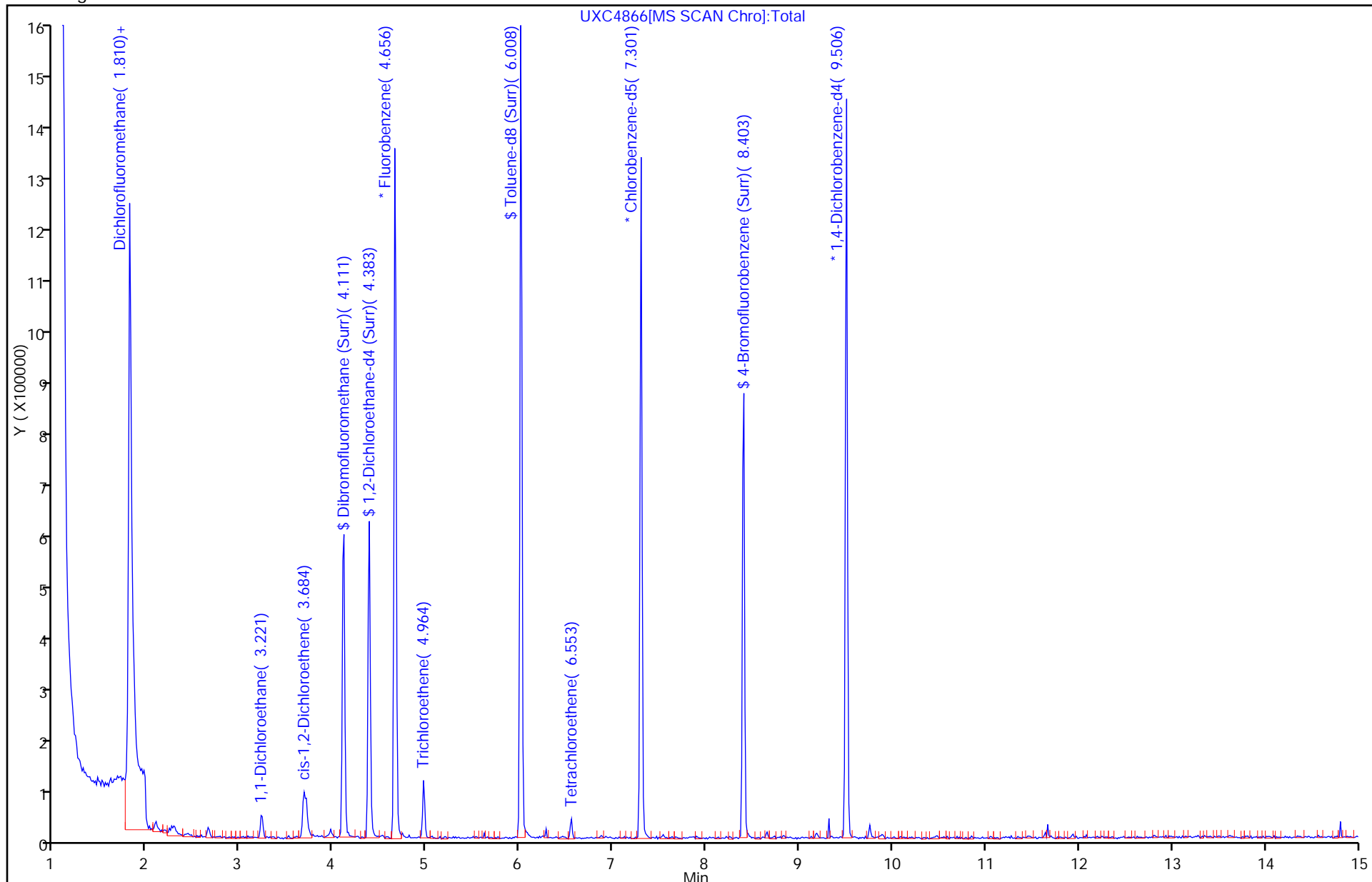
Lims Sample ID: 7

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



Report Date: 05-Jul-2012 08:02:27

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 03-Jul-2012 16:55:30

Limit Group: MSV 8260B ICAL

Client ID: MW-1A(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

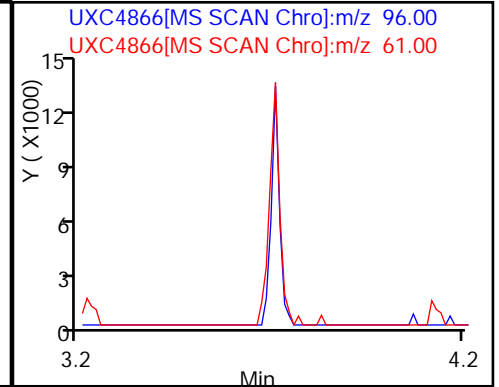
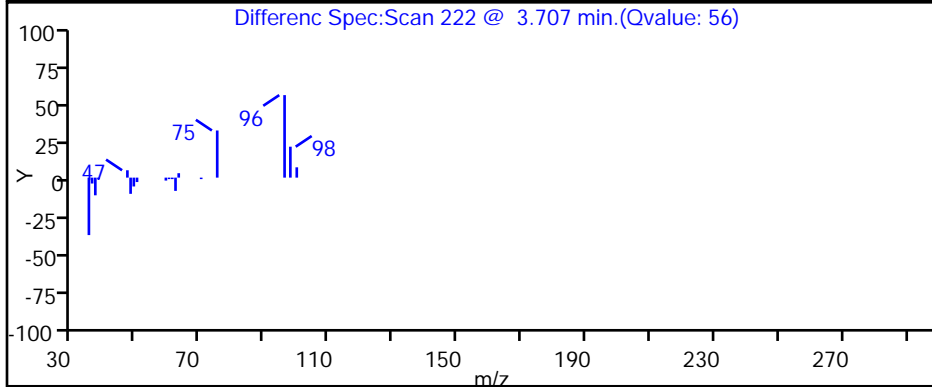
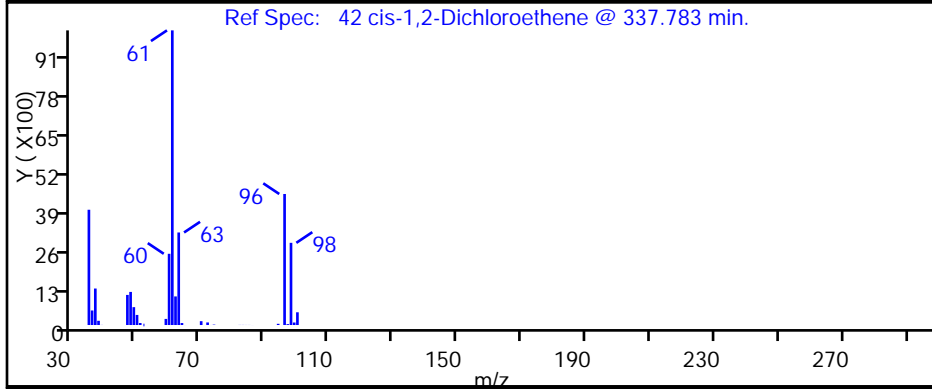
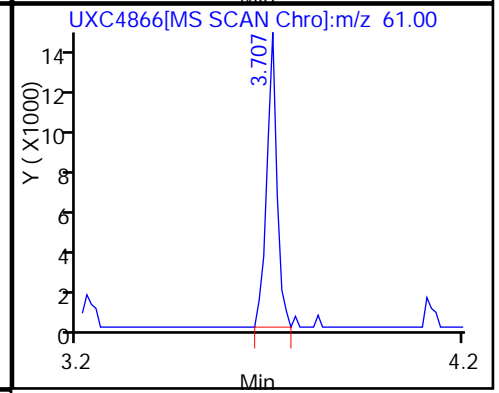
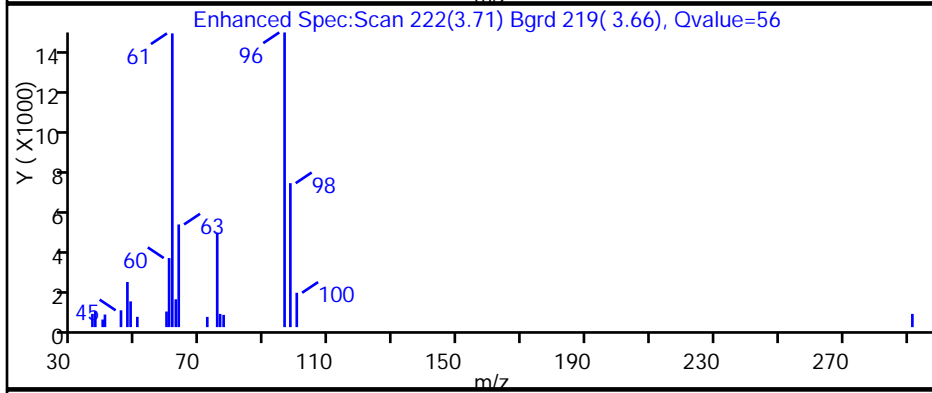
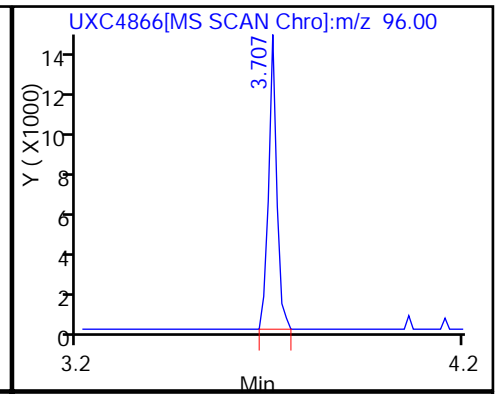
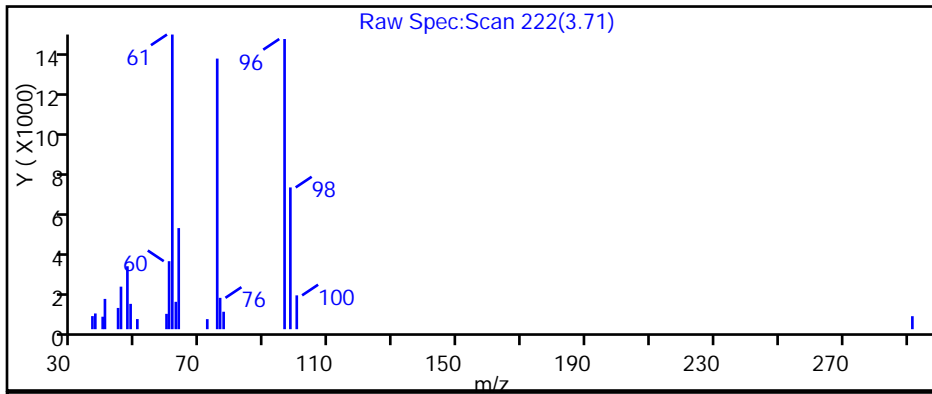
Lims Sample ID: 7

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

42 cis-1,2-Dichloroethene



Report Date: 05-Jul-2012 08:02:27

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4866.D

Injection Date: 03-Jul-2012 16:55:30

Limit Group: MSV 8260B ICAL

Client ID: MW-1A(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

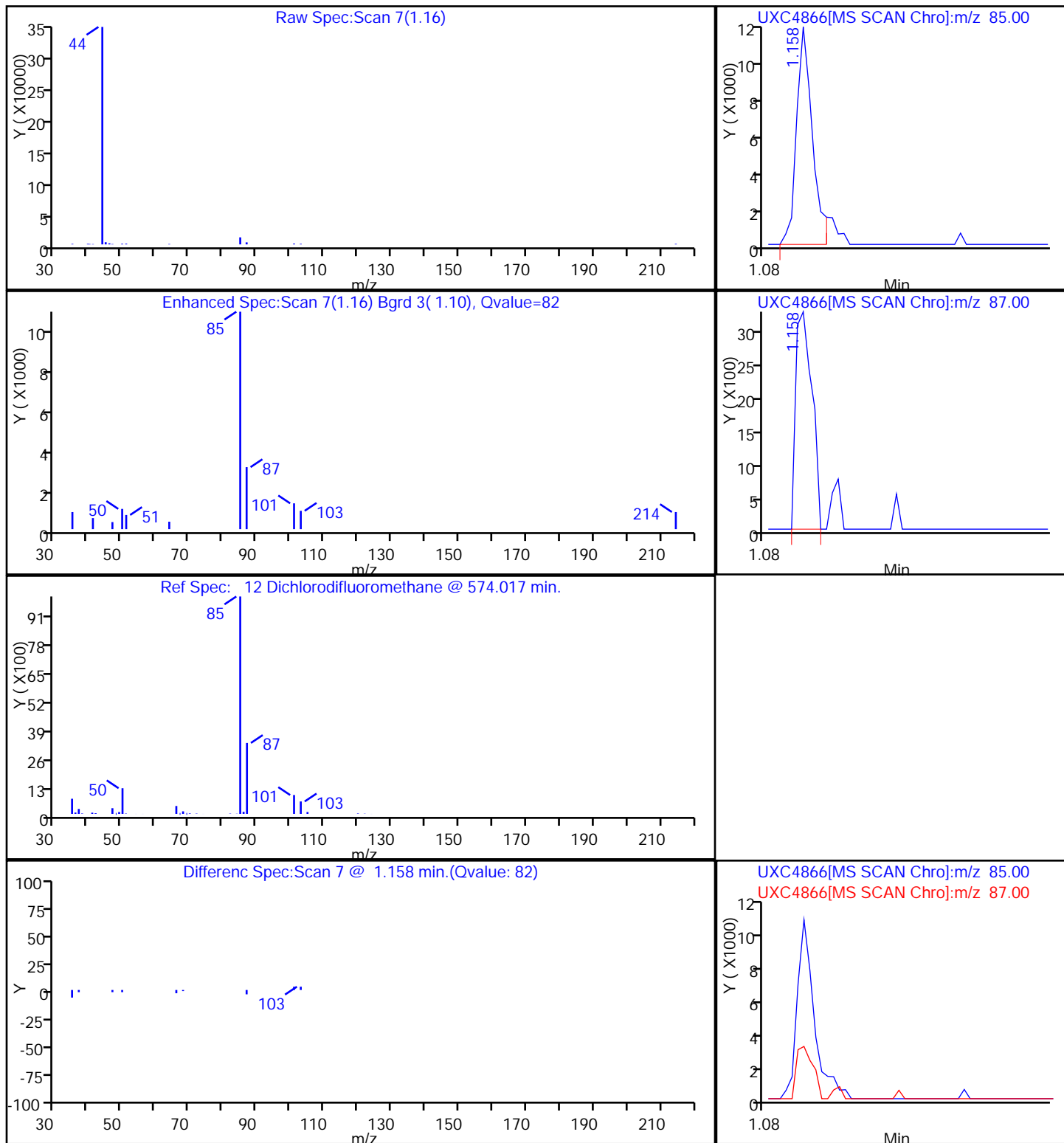
Lims Sample ID: 7

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

12 Dichlorodifluoromethane



Report Date: 05-Jul-2012 08:02:27

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4866.D

Injection Date: 03-Jul-2012 16:55:30

Limit Group: MSV 8260B ICAL

Client ID: MW-1A(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

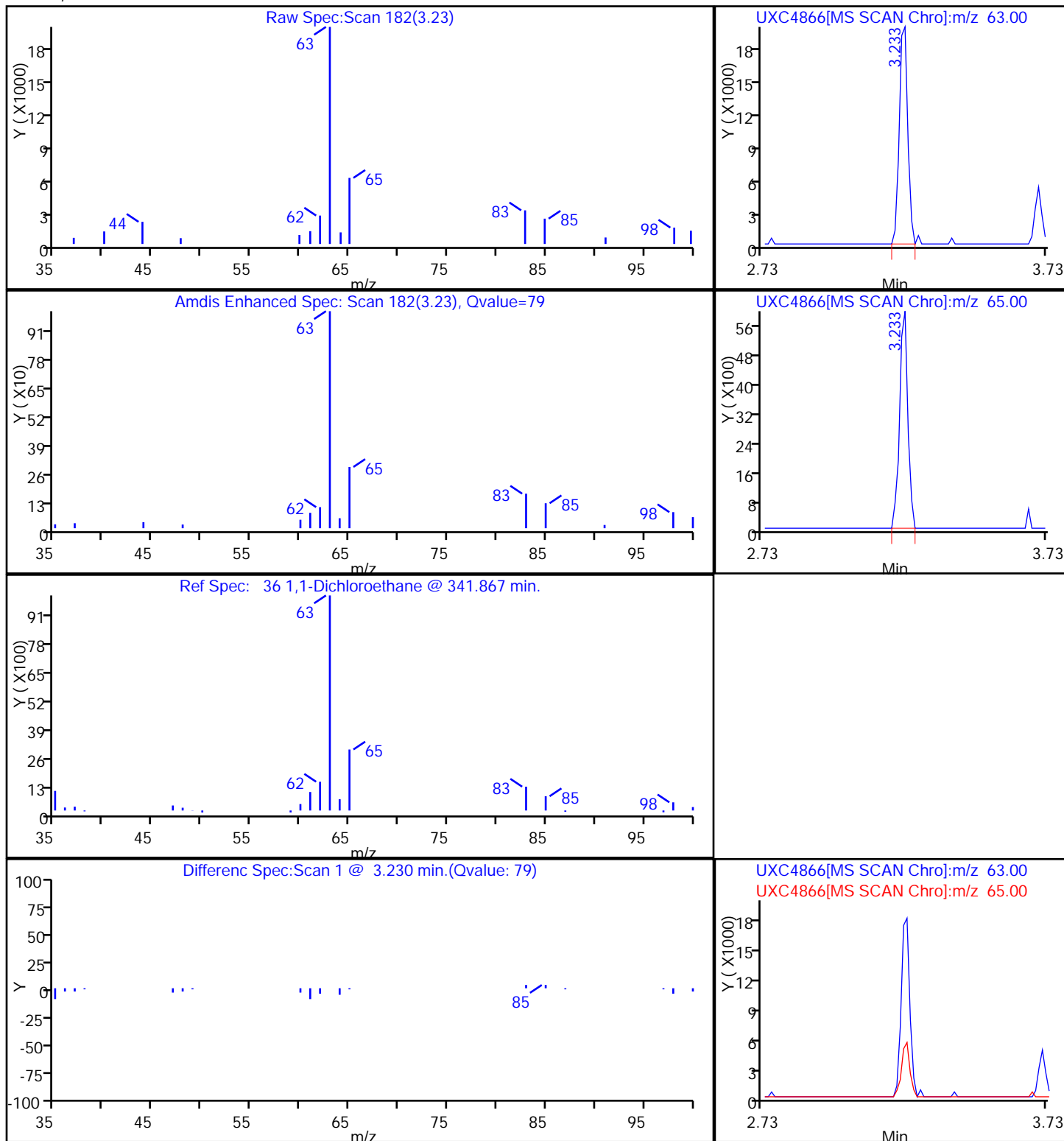
Lims Sample ID: 7

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

36 1,1-Dichloroethane



Report Date: 05-Jul-2012 08:02:27

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 03-Jul-2012 16:55:30

Limit Group: MSV 8260B ICAL

Client ID: MW-1A(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

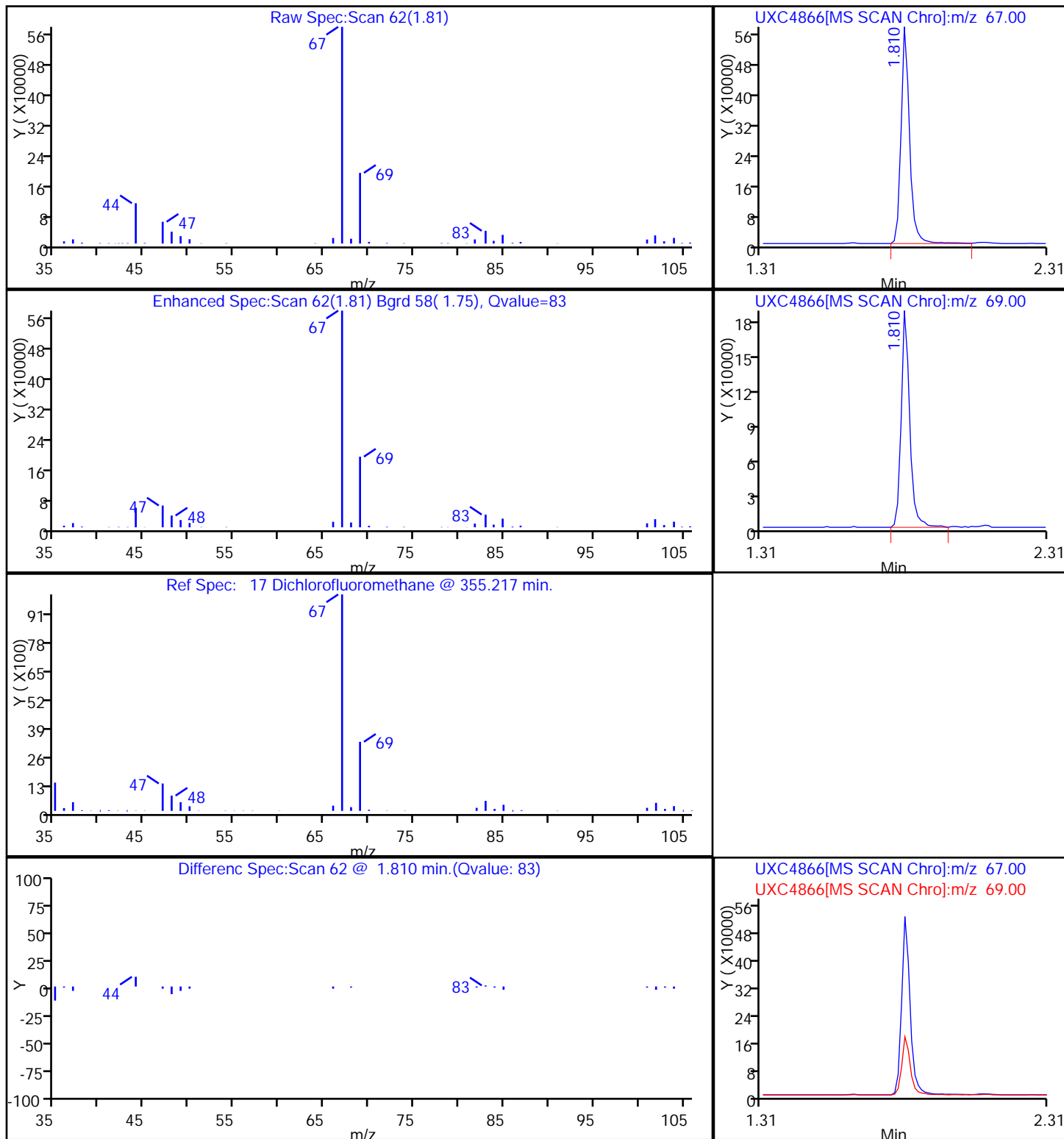
Lims Sample ID: 7

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

17 Dichlorofluoromethane



Report Date: 05-Jul-2012 08:02:27

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4866.D

Injection Date: 03-Jul-2012 16:55:30

Limit Group: MSV 8260B ICAL

Client ID: MW-1A(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

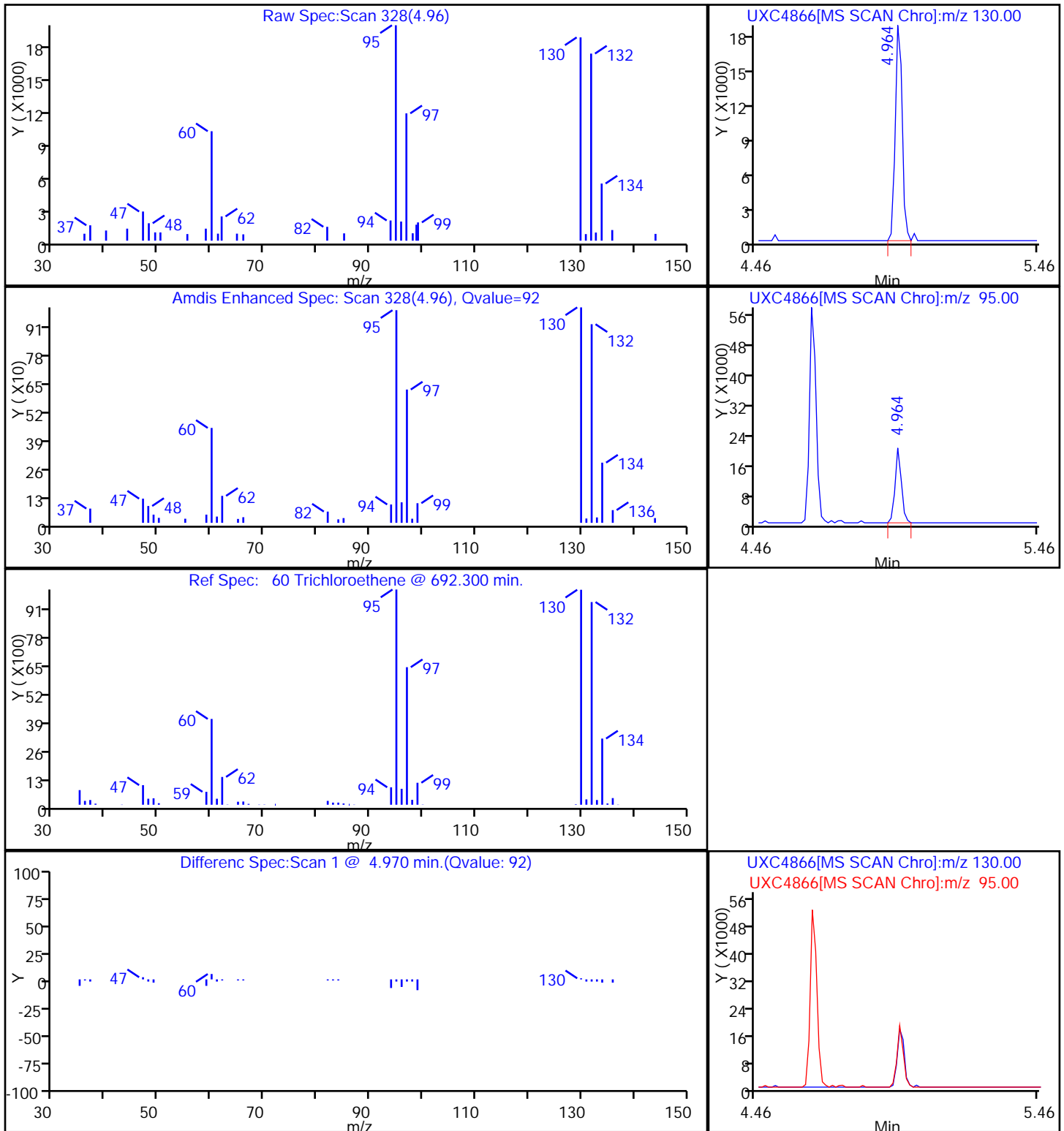
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Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

60 Trichloroethene



Report Date: 05-Jul-2012 08:02:27

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 03-Jul-2012 16:55:30

Limit Group: MSV 8260B ICAL

Client ID: MW-1A(20120622)

Instrument ID: A3UX15

Lims Batch ID: 49717

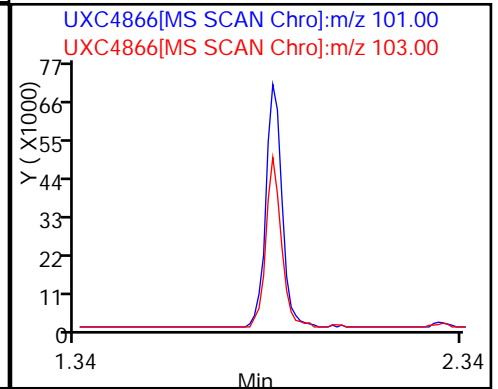
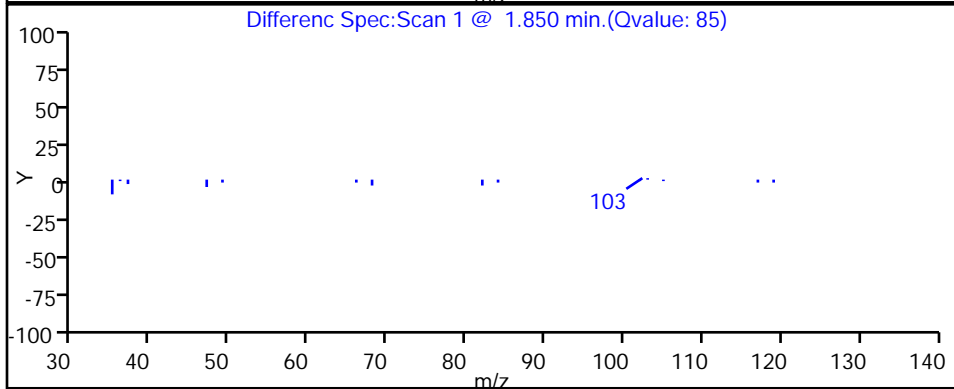
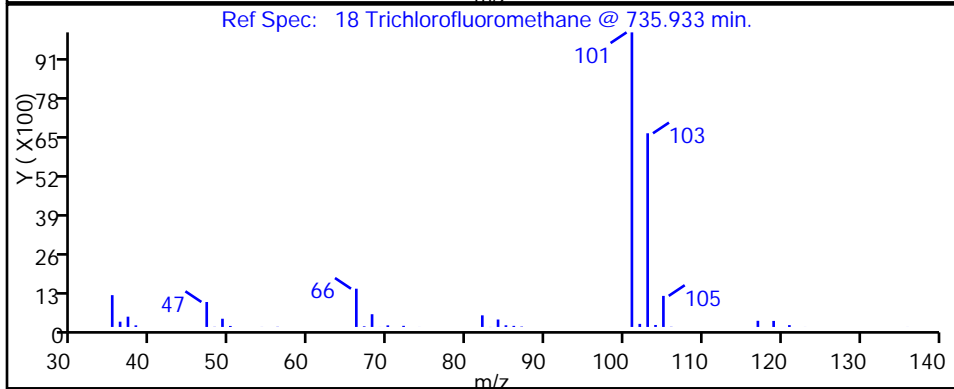
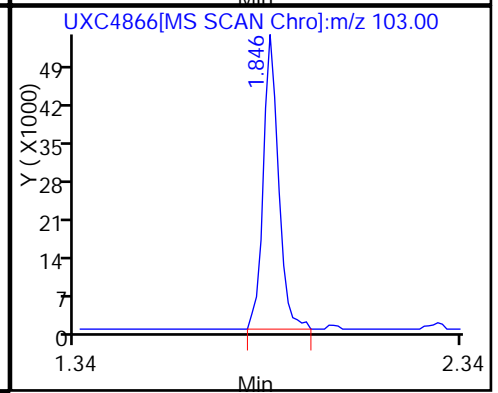
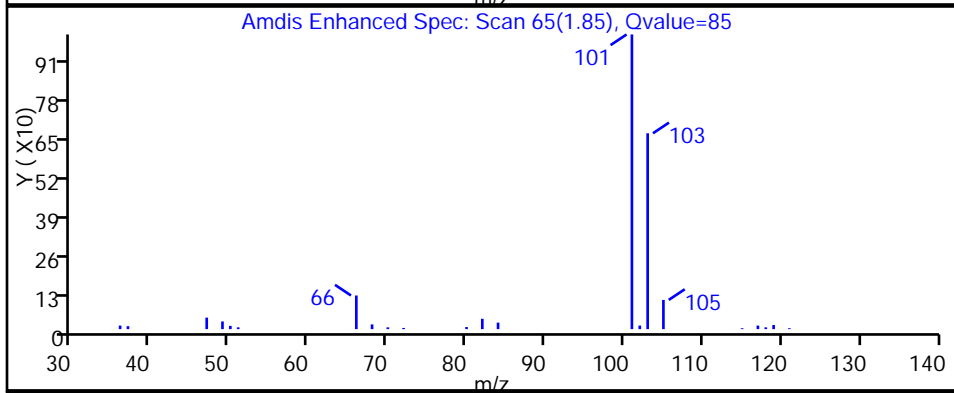
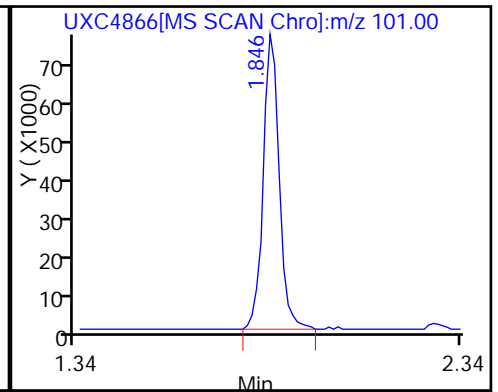
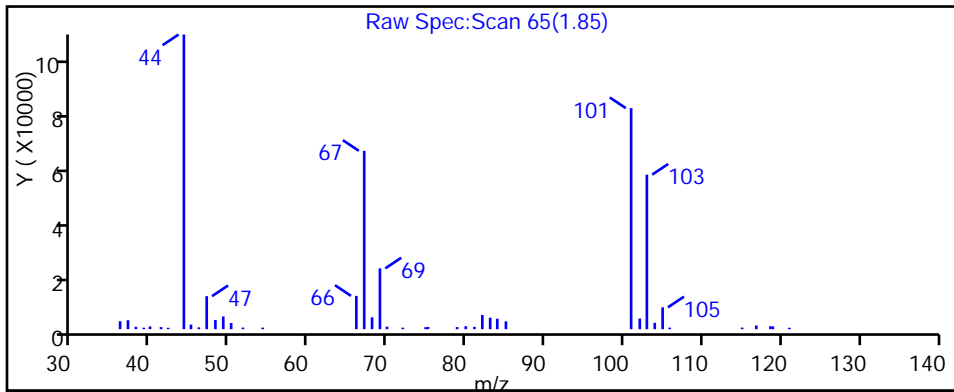
Lims Sample ID: 7

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

18 Trichlorofluoromethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: MW-102A(20120622) Lab Sample ID: 240-12605-3

Matrix: Water Lab File ID: UXJ5599.D

Analysis Method: 8260B Date Collected: 06/22/2012 12:15

Sample wt/vol: 5(mL) Date Analyzed: 07/05/2012 13:38

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49859 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
75-00-3	Chloroethane	1.0	U	1.0	0.29
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	1.5		1.0	0.31
75-34-3	1,1-Dichloroethane	1.3		1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
75-43-4	Dichlorofluoromethane	17		2.0	0.42
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Client Sample ID: MW-102A(20120622) Lab Sample ID: 240-12605-3
 Matrix: Water Lab File ID: UXJ5599.D
 Analysis Method: 8260B Date Collected: 06/22/2012 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 07/05/2012 13:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 49859 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
103-65-1	N-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.27
79-01-6	Trichloroethene	0.81	J	1.0	0.17
75-69-4	Trichlorofluoromethane	9.4		1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.096
75-01-4	Vinyl chloride	1.0	U	1.0	0.22
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		66-117
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		63-129
2037-26-5	Toluene-d8 (Surr)	95		74-115

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5599.D
 Lims ID: 240-12605-B-3 Client ID: MW-102A(20120622)
 Inject. Date: 05-Jul-2012 13:38:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 240-0011335-010
 Misc. Info.: J20705A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 10
 Lims Batch ID: 49859 Lims Sample ID: 10
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\8260_11.m
 Last Update: 06-Jul-2012 08:49:48 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 05-Jul-2012 14:03:37

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1283606	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	84	985038	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	94	310436	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	99	253083	8.12	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	92	298154	7.57	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	92	1158285	7.91	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	93	366865	8.56	
8 Dichlorodifluoromethane	85	1.553	1.553	0.0	67	40907	1.45	
9 Chloromethane	50		1.684					
10 Vinyl chloride	62		1.778					
11 Bromomethane	94		2.074					
12 Chloroethane	64		2.157					
13 Dichlorofluoromethane	67	2.299	2.299	0.0	78	949401	17.2	
14 Trichlorofluoromethane	101	2.358	2.370	-0.012	85	369666	9.42	
19 1,1-Dichloroethene	96		2.737					
26 Methylene Chloride	84		3.127					
29 trans-1,2-Dichloroethene	96		3.352					
32 1,1-Dichloroethane	63	3.695	3.695	0.0	66	81119	1.34	
39 2,2-Dichloropropane	77		4.168					
40 cis-1,2-Dichloroethene	96		4.168					
43 Chlorobromomethane	128		4.358					
45 Chloroform	83		4.417					
46 1,1,1-Trichloroethane	97		4.594					
48 1,1-Dichloropropene	75		4.725					
49 Carbon tetrachloride	117		4.736					
52 Benzene	78		4.890					
51 1,2-Dichloroethane	62		4.890					
56 Trichloroethene	130	5.435	5.435	0.0	78	31760	0.8100	
59 1,2-Dichloropropane	63		5.612					
61 Dibromomethane	93		5.707					
63 Dichlorobromomethane	83		5.837					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
66 cis-1,3-Dichloropropene	75		6.227					
68 Toluene	91		6.535					
69 trans-1,3-Dichloropropene	75		6.713					
71 1,1,2-Trichloroethane	97		6.878					
73 1,3-Dichloropropane	76		7.032					
72 Tetrachloroethene	164		7.032					
76 Chlorodibromomethane	129		7.245					
77 Ethylene Dibromide	107		7.363					
79 Chlorobenzene	112		7.813					
80 1,1,1,2-Tetrachloroethane	131		7.884					
81 Ethylbenzene	106		7.908					
82 m-Xylene & p-Xylene	106		8.026					
83 o-Xylene	106		8.393					
84 Styrene	104		8.405					
85 Bromoform	173		8.582					
86 Isopropylbenzene	105		8.748					
88 1,1,2,2-Tetrachloroethane	83		9.020					
89 Bromobenzene	156		9.044					
90 1,2,3-Trichloropropane	110		9.067					
92 N-Propylbenzene	120		9.150					
93 2-Chlorotoluene	126		9.233					
94 1,3,5-Trimethylbenzene	105		9.316					
95 4-Chlorotoluene	126		9.339					
96 tert-Butylbenzene	119		9.635					
97 1,2,4-Trimethylbenzene	105		9.683					
98 sec-Butylbenzene	105		9.860					
99 1,3-Dichlorobenzene	146		9.967					
100 4-Isopropyltoluene	119		10.002					
101 1,4-Dichlorobenzene	146		10.049					
103 n-Butylbenzene	91		10.404					
104 1,2-Dichlorobenzene	146		10.428					
107 1,2,4-Trichlorobenzene	180		12.025					
108 Hexachlorobutadiene	225		12.215					
109 Naphthalene	128		12.274					
110 1,2,3-Trichlorobenzene	180		12.522					

Report Date: 06-Jul-2012 08:49:53

Chrom Revision: 2.0 08-Feb-2012 11:07:54

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Instrument ID: A3UX11

Lims Batch ID: 49859

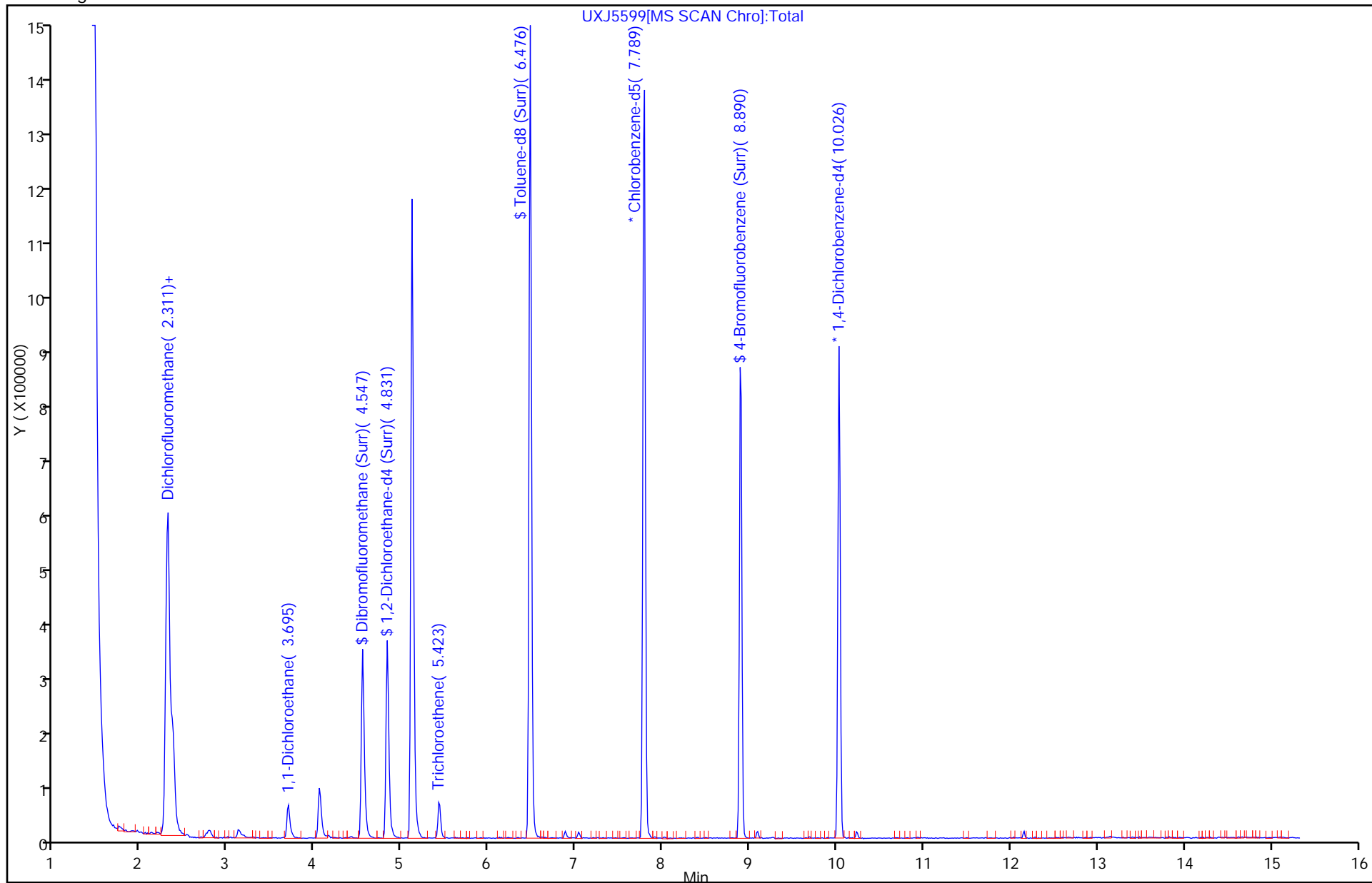
Lims Sample ID: 10

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



Report Date: 06-Jul-2012 08:49:53

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 05-Jul-2012 13:38:30

Limit Group: MSV 8260B ICAL

Client ID: MW-102A(20120622)

Instrument ID: A3UX11

Lims Batch ID: 49859

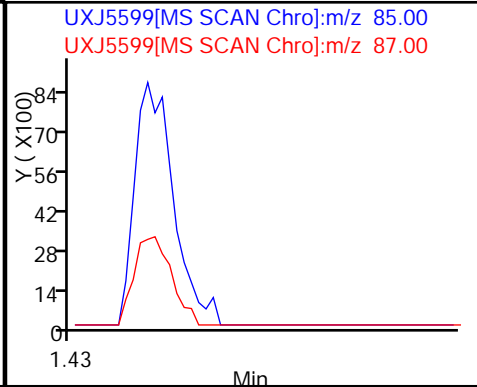
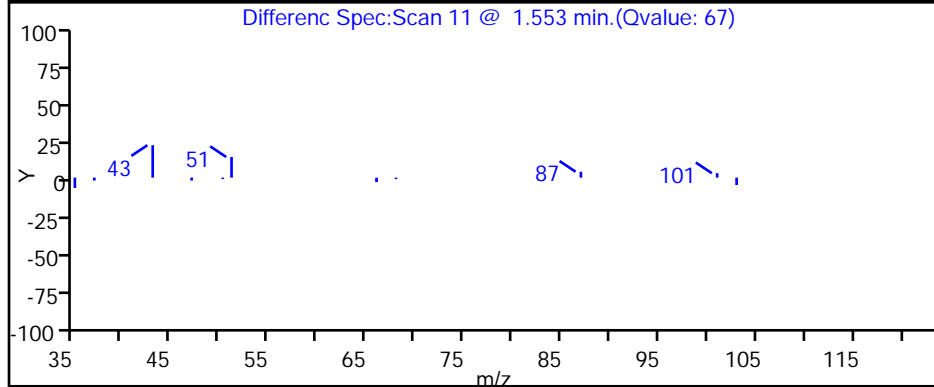
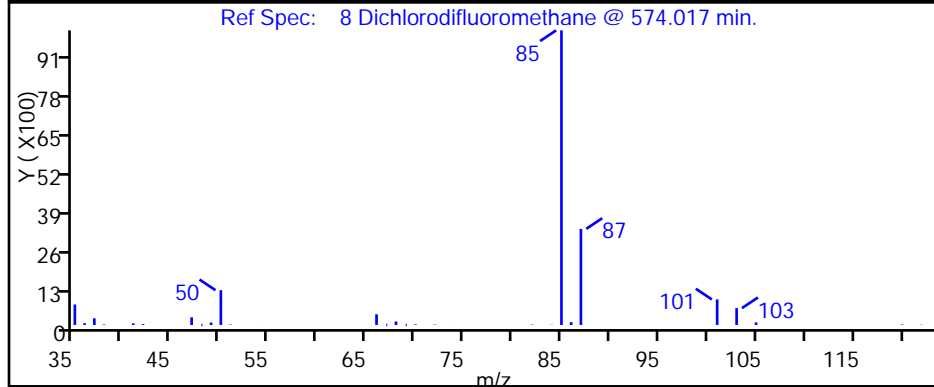
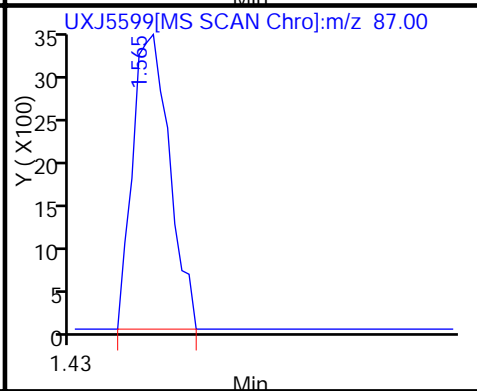
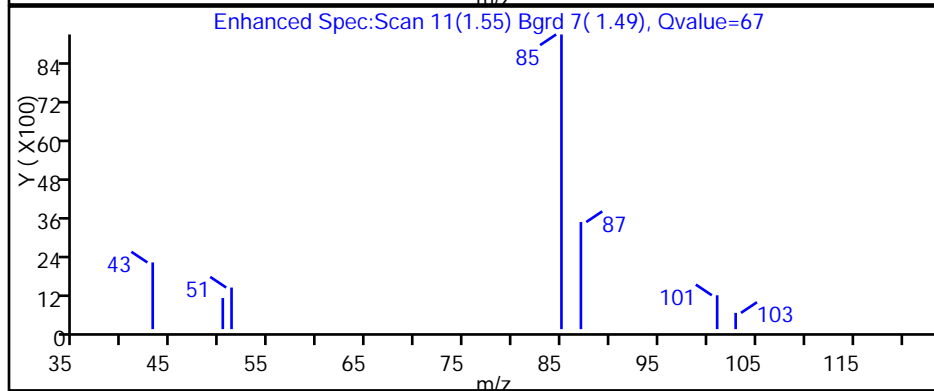
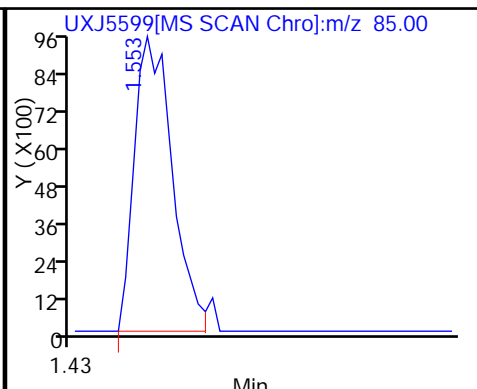
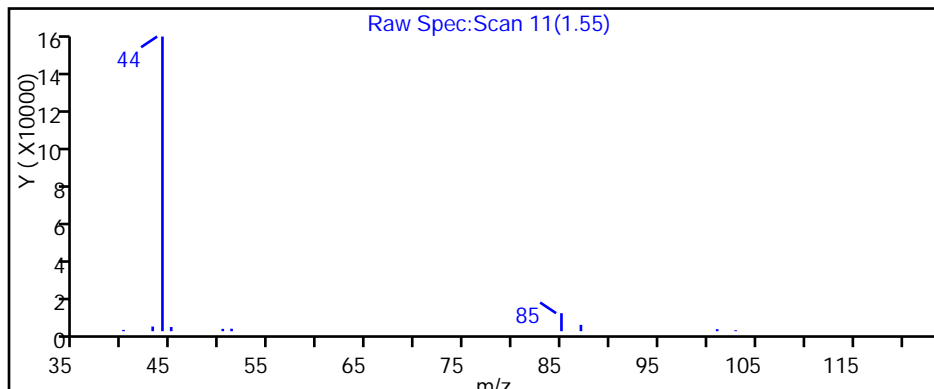
Lims Sample ID: 10

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

8 Dichlorodifluoromethane



Report Date: 06-Jul-2012 08:49:53

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 05-Jul-2012 13:38:30

Limit Group: MSV 8260B ICAL

Client ID: MW-102A(20120622)

Instrument ID: A3UX11

Lims Batch ID: 49859

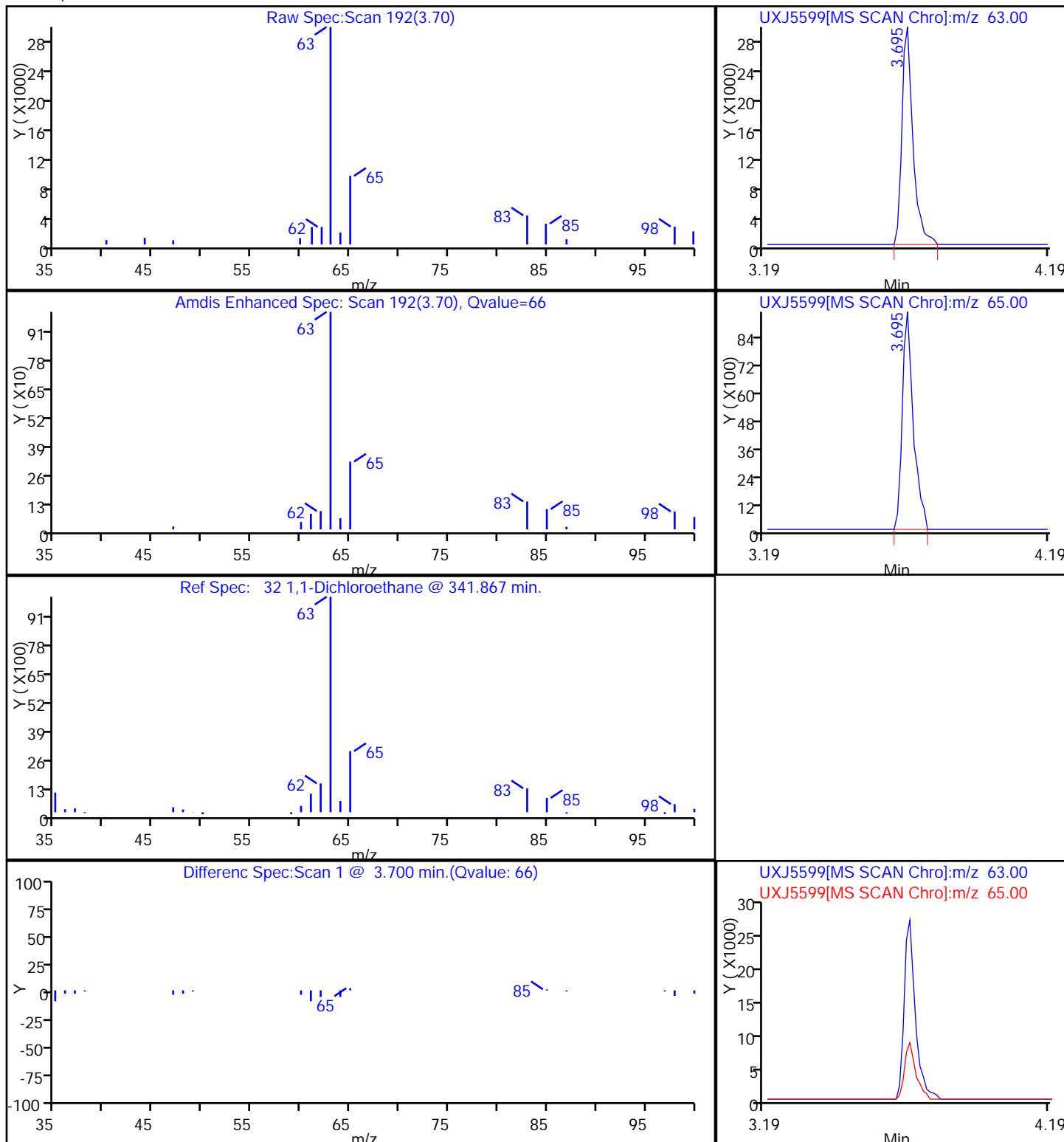
Lims Sample ID: 10

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

32 1,1-Dichloroethane



Report Date: 06-Jul-2012 08:49:53

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 05-Jul-2012 13:38:30

Limit Group: MSV 8260B ICAL

Client ID: MW-102A(20120622)

Instrument ID: A3UX11

Lims Batch ID: 49859

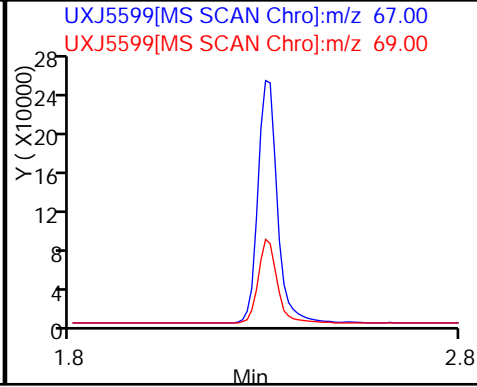
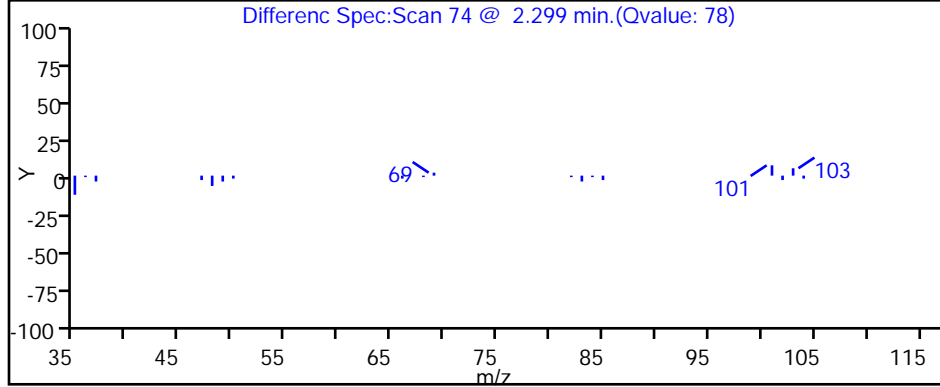
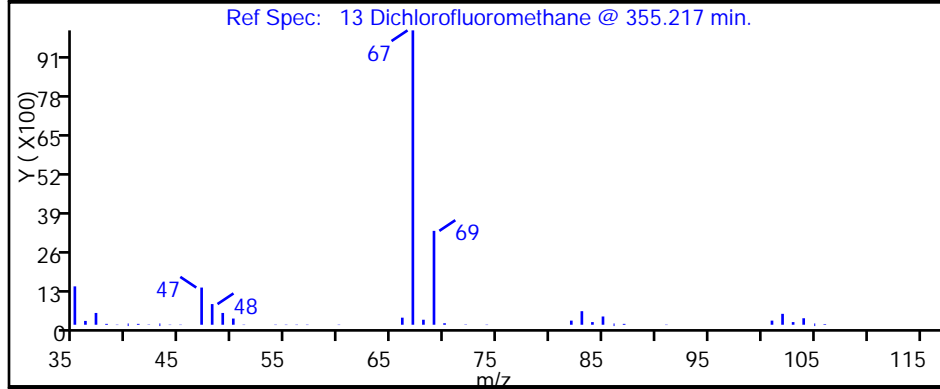
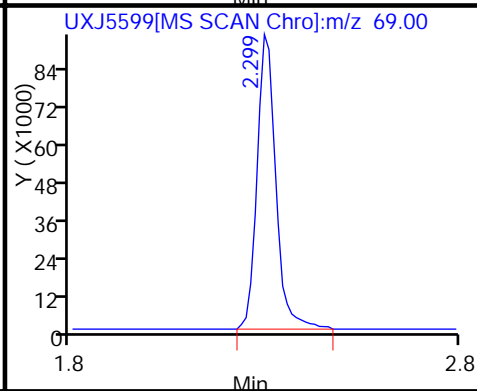
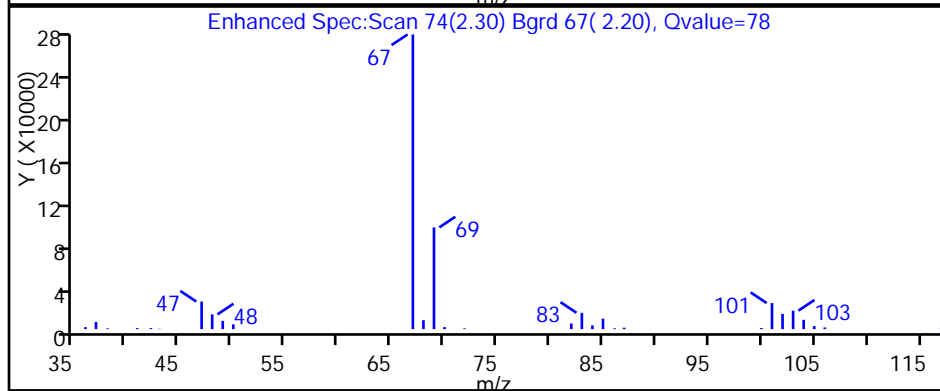
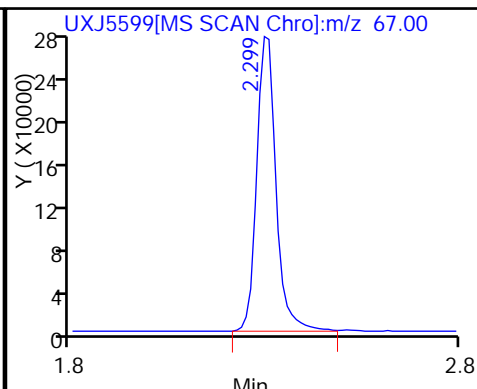
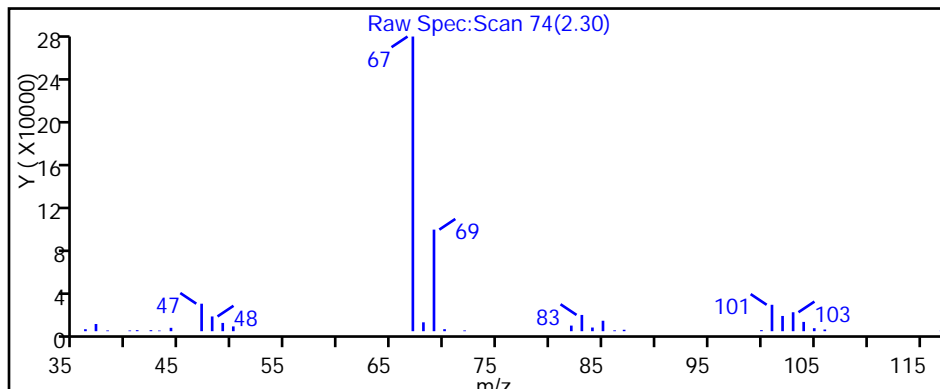
Lims Sample ID: 10

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

13 Dichlorofluoromethane



Report Date: 06-Jul-2012 08:49:53

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 05-Jul-2012 13:38:30

Limit Group: MSV 8260B ICAL

Client ID: MW-102A(20120622)

Instrument ID: A3UX11

Lims Batch ID: 49859

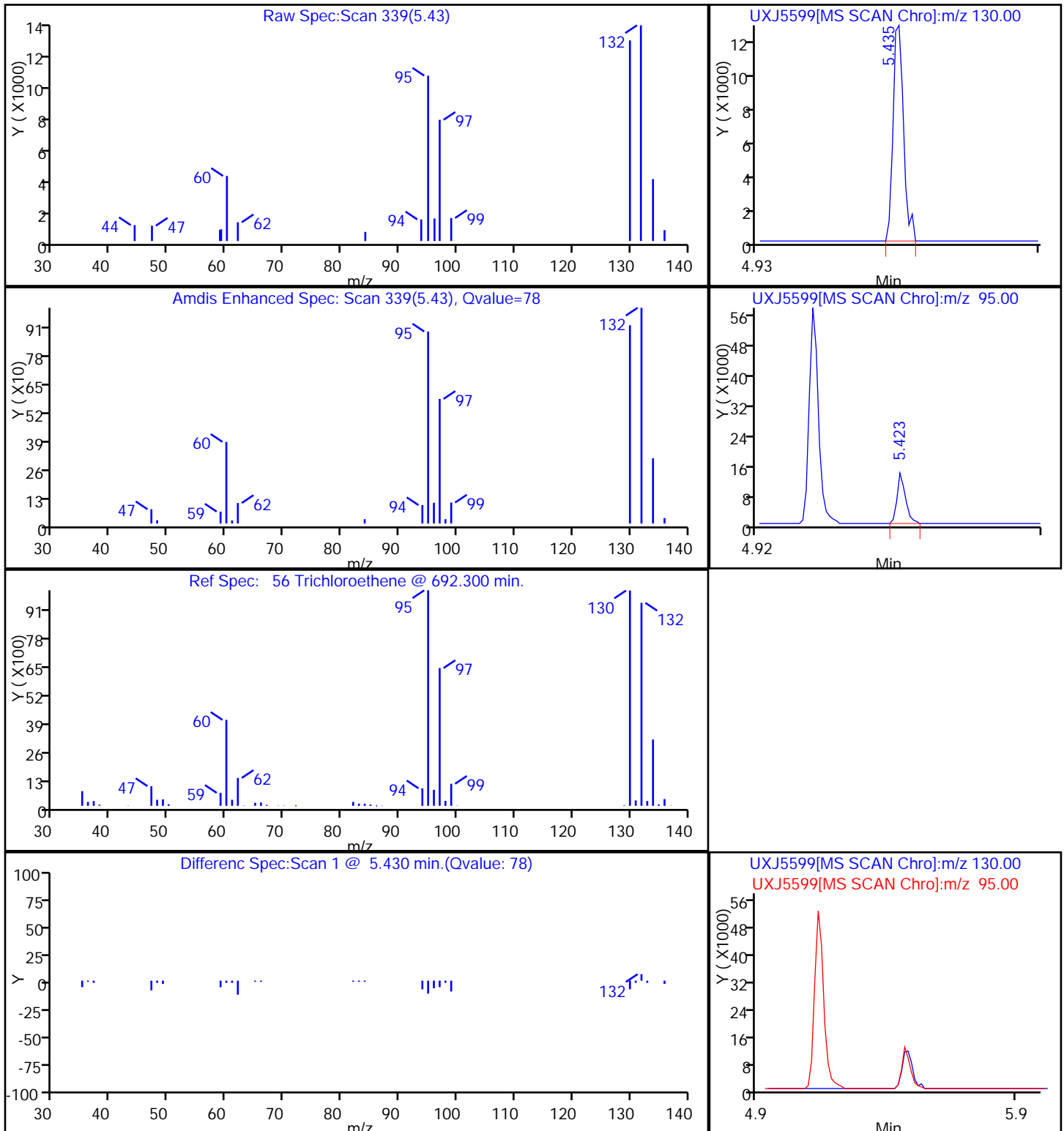
Lims Sample ID: 10

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

56 Trichloroethene



Report Date: 06-Jul-2012 08:49:53

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

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Injection Date: 05-Jul-2012 13:38:30

Limit Group: MSV 8260B ICAL

Client ID: MW-102A(20120622)

Instrument ID: A3UX11

Lims Batch ID: 49859

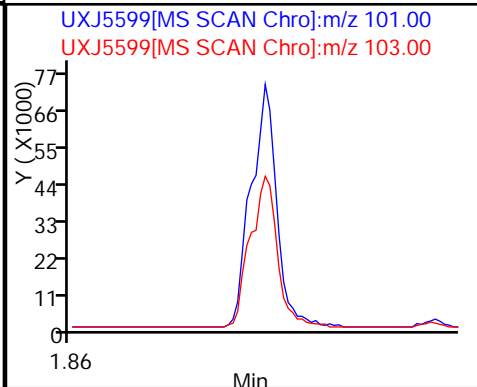
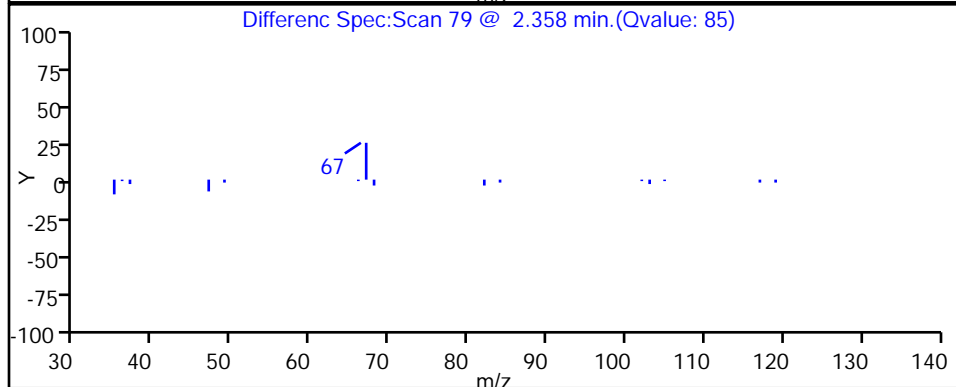
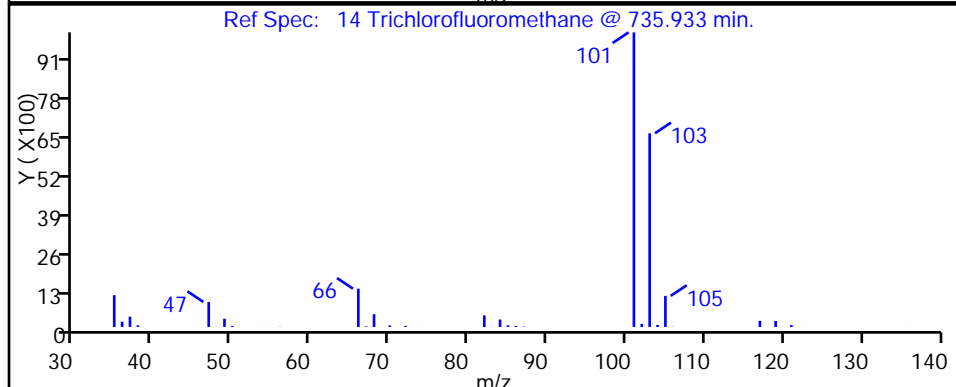
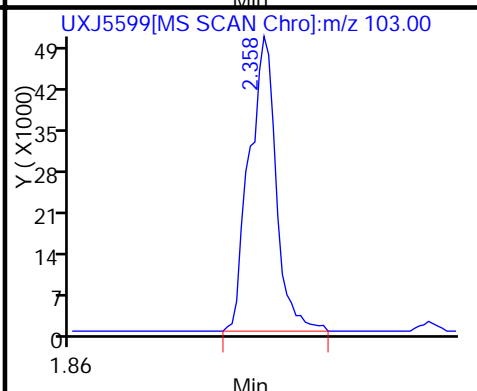
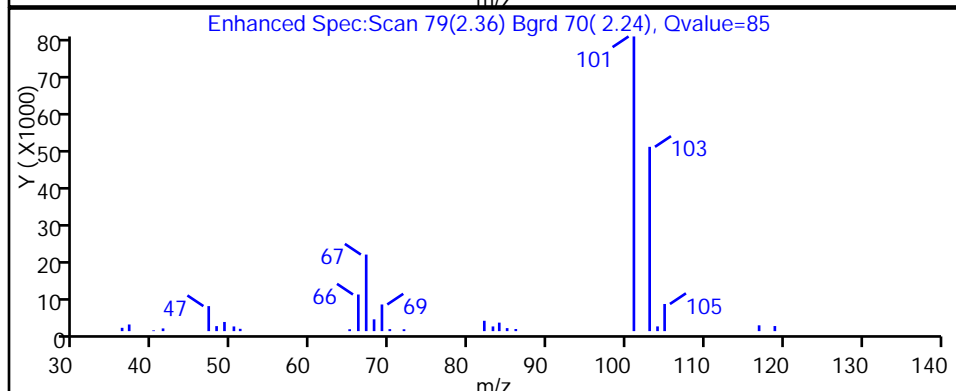
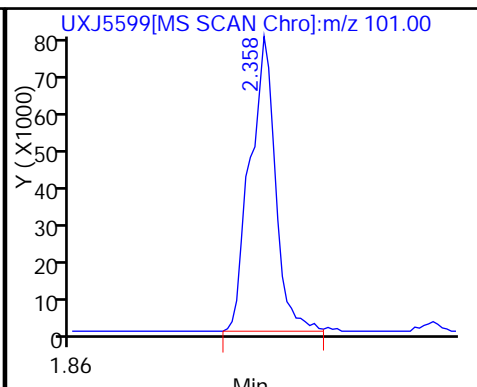
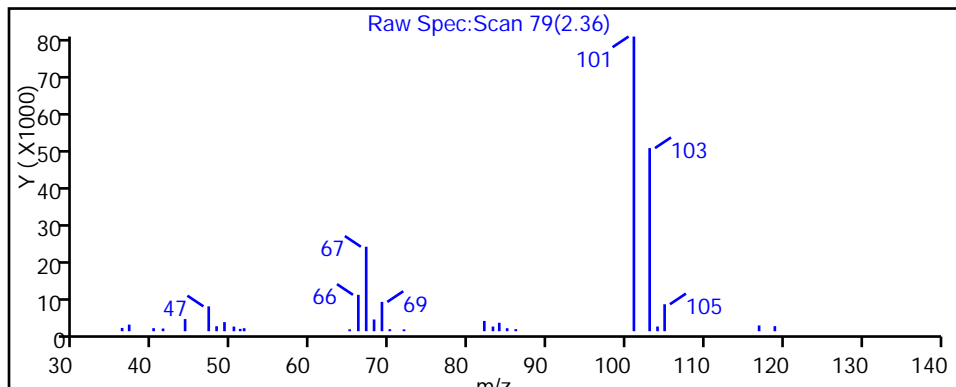
Lims Sample ID: 10

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

14 Trichlorofluoromethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: TRIP BLANK Lab Sample ID: 240-12605-4

Matrix: Water Lab File ID: UXJ5600.D

Analysis Method: 8260B Date Collected: 06/22/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 07/05/2012 14:00

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49859 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
75-00-3	Chloroethane	1.0	U	1.0	0.29
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
75-43-4	Dichlorofluoromethane	2.0	U	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
75-09-2	Methylene Chloride	1.7	B	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 240-12605-4
 Matrix: Water Lab File ID: UXJ5600.D
 Analysis Method: 8260B Date Collected: 06/22/2012 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 07/05/2012 14:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 49859 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
103-65-1	N-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.27
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.096
75-01-4	Vinyl chloride	1.0	U	1.0	0.22
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		66-117
1868-53-7	Dibromofluoromethane (Surr)	94		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		63-129
2037-26-5	Toluene-d8 (Surr)	94		74-115

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5600.D
 Lims ID: 240-12605-A-4 Client ID: TRIP BLANK
 Inject. Date: 05-Jul-2012 14:00:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 240-0011335-011
 Misc. Info.: J20705A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 11
 Lims Batch ID: 49859 Lims Sample ID: 11
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\8260_11.m
 Last Update: 06-Jul-2012 08:49:48 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 06-Jul-2012 08:27:01

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1286509	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	82	967807	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	94	307741	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	96	244587	7.83	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	93	283656	7.18	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	83	1131516	7.87	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	91	361779	8.59	
8 Dichlorodifluoromethane	85		1.553					
9 Chloromethane	50		1.684					
10 Vinyl chloride	62		1.778					
11 Bromomethane	94		2.074					
12 Chloroethane	64		2.157					
13 Dichlorofluoromethane	67		2.299					
14 Trichlorofluoromethane	101		2.370					
19 1,1-Dichloroethene	96		2.737					
26 Methylene Chloride	84	3.127	3.127	0.0	81	86719	1.74	
29 trans-1,2-Dichloroethene	96		3.352					
32 1,1-Dichloroethane	63		3.695					
39 2,2-Dichloropropane	77		4.168					
40 cis-1,2-Dichloroethene	96		4.168					
43 Chlorobromomethane	128		4.358					
45 Chloroform	83		4.417					
46 1,1,1-Trichloroethane	97		4.594					
48 1,1-Dichloropropene	75		4.725					
49 Carbon tetrachloride	117		4.736					
52 Benzene	78		4.890					
51 1,2-Dichloroethane	62		4.890					
56 Trichloroethene	130		5.435					
59 1,2-Dichloropropane	63		5.612					
61 Dibromomethane	93		5.707					
63 Dichlorobromomethane	83		5.837					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
66 cis-1,3-Dichloropropene	75		6.227					
68 Toluene	91		6.535					
69 trans-1,3-Dichloropropene	75		6.713					
71 1,1,2-Trichloroethane	97		6.878					
73 1,3-Dichloropropane	76		7.032					
72 Tetrachloroethene	164		7.032					
76 Chlorodibromomethane	129		7.245					
77 Ethylene Dibromide	107		7.363					
79 Chlorobenzene	112		7.813					
80 1,1,1,2-Tetrachloroethane	131		7.884					
81 Ethylbenzene	106		7.908					
82 m-Xylene & p-Xylene	106		8.026					
83 o-Xylene	106		8.393					
84 Styrene	104		8.405					
85 Bromoform	173		8.582					
86 Isopropylbenzene	105		8.748					
88 1,1,2,2-Tetrachloroethane	83		9.020					
89 Bromobenzene	156		9.044					
90 1,2,3-Trichloropropane	110		9.067					
92 N-Propylbenzene	120		9.150					
93 2-Chlorotoluene	126		9.233					
94 1,3,5-Trimethylbenzene	105		9.316					
95 4-Chlorotoluene	126		9.339					
96 tert-Butylbenzene	119		9.635					
97 1,2,4-Trimethylbenzene	105		9.683					
98 sec-Butylbenzene	105		9.860					
99 1,3-Dichlorobenzene	146		9.967					
100 4-Isopropyltoluene	119		10.002					
101 1,4-Dichlorobenzene	146		10.049					
103 n-Butylbenzene	91		10.404					
104 1,2-Dichlorobenzene	146		10.428					
107 1,2,4-Trichlorobenzene	180		12.025					
108 Hexachlorobutadiene	225		12.215					
109 Naphthalene	128		12.274					
110 1,2,3-Trichlorobenzene	180		12.522					

Report Date: 06-Jul-2012 08:49:53

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5600.D

Injection Date: 05-Jul-2012 14:00:30

Limit Group: MSV 8260B ICAL

Client ID: TRIP BLANK

Instrument ID: A3UX11

Lims Batch ID: 49859

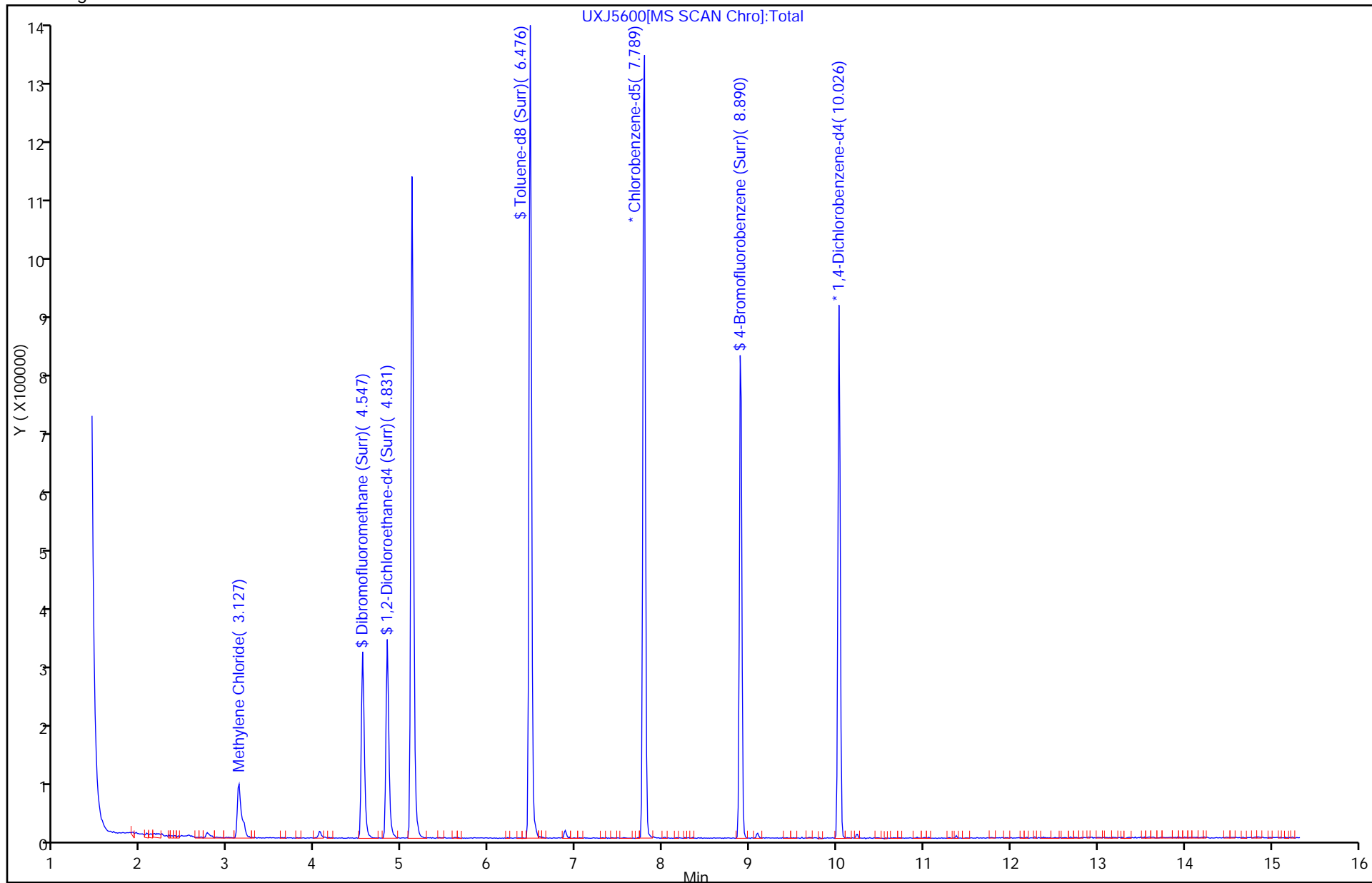
Lims Sample ID: 11

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



Report Date: 06-Jul-2012 08:49:53

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5600.D

Injection Date: 05-Jul-2012 14:00:30

Limit Group: MSV 8260B ICAL

Client ID: TRIP BLANK

Instrument ID: A3UX11

Lims Batch ID: 49859

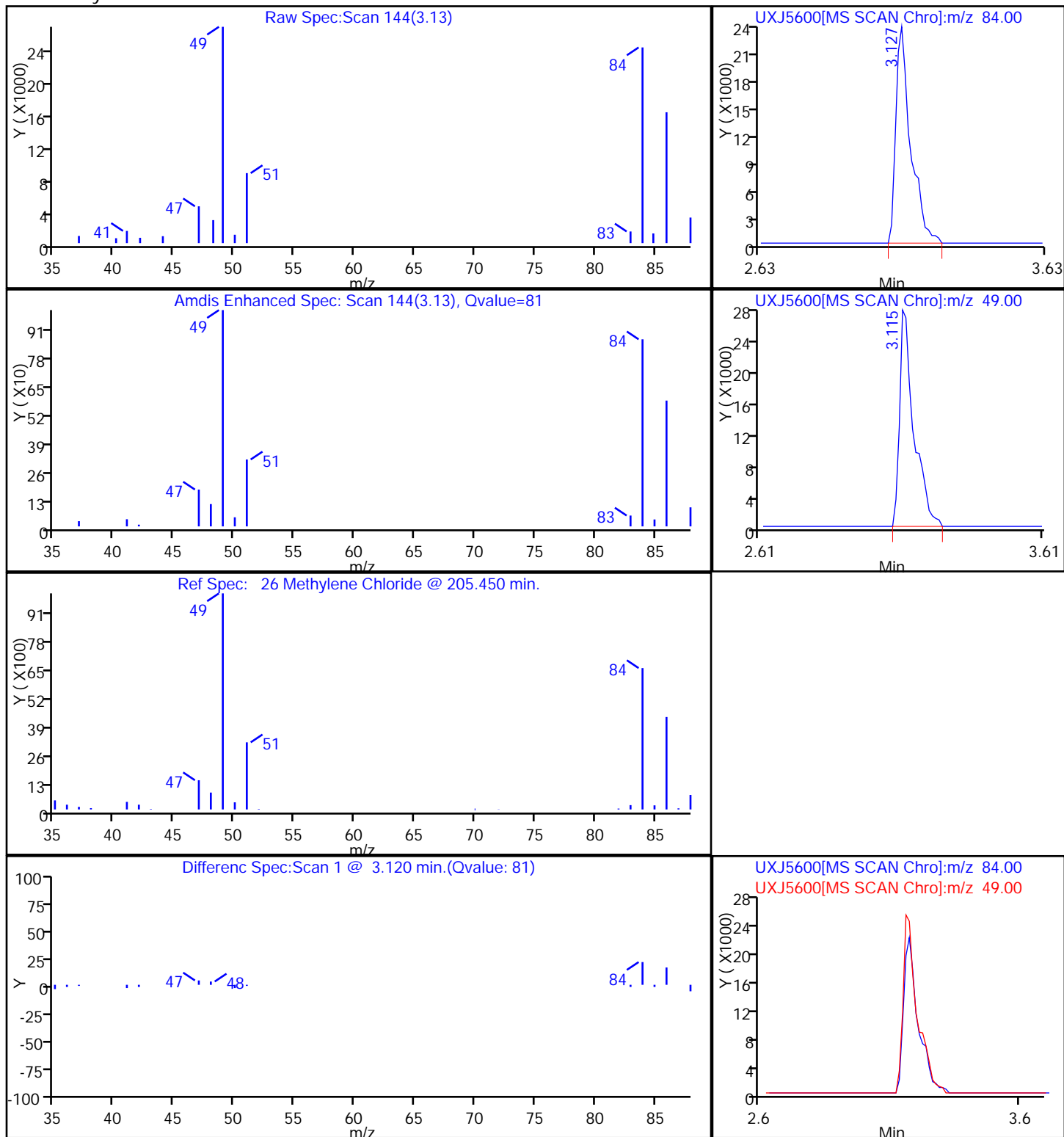
Lims Sample ID: 11

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

26 Methylene Chloride



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-47806/9	UXJ5157.D
Level 2	STD8260 240-47806/8	UXJ5156.D
Level 3	STD8260 240-47806/7	UXJ5155.D
Level 4	STD8260 240-47806/6	UXJ5154.D
Level 5	STD8260 240-47806/5	UXJ5153.D
Level 6	STD8260 240-47806/4	UXJ5152.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2106 0.2154	0.2066	0.1997	0.2437	0.2399	Ave		0.2193				8.3		15.0			
Chloromethane	0.3977 0.3706	0.3818	0.3575	0.3446	0.3613	Ave		0.3689			0.1000	5.1		15.0			
Vinyl chloride	0.3394 0.3587	0.3502	0.3483	0.3504	0.3544	Ave		0.3502				1.8		15.0			
Bromomethane	0.0907 0.1236	0.0965	0.1240	0.1094	0.1201	Ave		0.1107				13.0		15.0			
Chloroethane	0.1114 0.1297	0.1101	0.1362	0.1124	0.1267	Ave		0.1211				9.2		15.0			
Trichlorofluoromethane	0.2930 0.3121	0.2804	0.2938	0.3208	0.3349	Ave		0.3058				6.6		15.0			
Acrolein	0.0340 0.0369	0.0366	0.0386	0.0379	0.0383	Ave		0.0370				4.6		15.0			
1,1-Dichloroethene	0.2484 0.2421	0.2433	0.2498	0.2483	0.2507	Ave		0.2471				1.4		15.0			
Acetone	0.1017 0.0563	0.0915	0.0696	0.0624	0.0585	Lin1	0.1134	0.0556							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1581 0.1603	0.1564	0.1685	0.1893	0.1904	Ave		0.1705				9.1		15.0			
Iodomethane	0.3396 0.3452	0.3237	0.3606	0.3373	0.3419	Ave		0.3414				3.5		15.0			
Carbon disulfide	0.8425 0.8447	0.7922	0.8240	0.8283	0.8473	Ave		0.8298				2.5		15.0			
Acetonitrile	0.0270 0.0222	0.0267	0.0248	0.0257	0.0235	Ave		0.0250				7.4		15.0			
Methyl acetate	0.1903 0.1560	0.1741	0.1728	0.1650	0.1638	Ave		0.1703				6.9		15.0			
Methylene Chloride	0.4957 0.2736	0.3616	0.3075	0.2778	0.2692	Lin1	0.2150	0.2637							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Methyl-2-propanol	0.0220 0.0166	0.0208	0.0194	0.0188	0.0179	Ave		0.0192				10.0		15.0			
Acrylonitrile	0.0872 0.0834	0.0935	0.0926	0.0867	0.0857	Ave		0.0882				4.6		15.0			
Methyl tert-butyl ether	0.8243 0.7795	0.7836	0.7999	0.7743	0.7803	Ave		0.7903				2.4		15.0			
trans-1,2-Dichloroethene	0.3033 0.2848	0.2739	0.2893	0.2767	0.2801	Ave		0.2847				3.7		15.0			
Hexane	0.0581 0.0611	0.0583	0.0594	0.0737	0.0734	Ave		0.0640				12.0		15.0			
1,1-Dichloroethane	0.4974 0.4815	0.4776	0.4640	0.4568	0.4623	Ave		0.4733			0.1000	3.2		15.0			
Vinyl acetate	0.0516 0.0587	0.0539	0.0605	0.0558	0.0590	Ave		0.0566				6.1		15.0			
2-Butanone (MEK)	0.1055 0.0871	0.0998	0.1038	0.0926	0.0933	Ave		0.0970				7.4		15.0			
cis-1,2-Dichloroethene	0.3206 0.3153	0.3168	0.3161	0.3020	0.3024	Ave		0.3122				2.5		15.0			
2,2-Dichloropropane	0.2924 0.2762	0.2677	0.2780	0.2854	0.2851	Ave		0.2808				3.1		15.0			
Bromochloromethane	0.1501 0.1462	0.1510	0.1478	0.1401	0.1423	Ave		0.1462				3.0		15.0			
Tetrahydrofuran	0.0720 0.0593	0.0675	0.0634	0.0640	0.0633	Ave		0.0649				6.7		15.0			
Chloroform	0.5108 0.4821	0.4793	0.4855	0.4678	0.4646	Ave		0.4817				3.4		15.0			
1,1,1-Trichloroethane	0.3733 0.3736	0.3666	0.3741	0.3758	0.3747	Ave		0.3730				0.9		15.0			
Cyclohexane	0.4265 0.4068	0.3940	0.4053	0.4599	0.4684	Ave		0.4268				7.2		15.0			
1,1-Dichloropropene	0.4133 0.3910	0.3770	0.3865	0.3843	0.3873	Ave		0.3899				3.2		15.0			
Carbon tetrachloride	0.3130 0.3237	0.2994	0.3154	0.3262	0.3289	Ave		0.3178				3.4		15.0			
1,2-Dichloroethane	0.3636 0.3558	0.3594	0.3672	0.3472	0.3439	Ave		0.3562				2.6		15.0			
Benzene	1.2322 1.2088	1.1764	1.1803	1.1447	1.1538	Ave		1.1827				2.8		15.0			
Trichloroethene	0.3257 0.3080	0.3104	0.3020	0.2899	0.2968	Ave		0.3055				4.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.3011 0.2796	0.2755	0.2778	0.2722	0.2708	Ave		0.2795				4.0		15.0			
Methylcyclohexane	0.4191 0.4112	0.3761	0.3972	0.4679	0.4779	Ave		0.4249				9.4		15.0			
Dibromomethane	0.1677 0.1549	0.1467	0.1570	0.1552	0.1561	Ave		0.1563				4.3		15.0			
1,4-Dioxane	0.0028 0.0022	0.0027	0.0026	0.0027	0.0024	Ave		0.0026				7.8		15.0			
Bromodichloromethane	0.3651 0.3692	0.3436	0.3475	0.3454	0.3520	Ave		0.3538				3.1		15.0			
2-Chloroethyl vinyl ether	0.1563 0.1709	0.1729	0.1760	0.1666	0.1677	Ave		0.1684				4.1		15.0			
cis-1,3-Dichloropropene	0.4551 0.4798	0.4583	0.4640	0.4431	0.4529	Ave		0.4589				2.7		15.0			
4-Methyl-2-pentanone (MIBK)	0.2098 0.1903	0.2120	0.2104	0.1959	0.1974	Ave		0.2026				4.5		15.0			
Toluene	1.8464 1.8696	1.7453	1.7767	1.7172	1.7755	Ave		1.7885				3.3		15.0			
trans-1,3-Dichloropropene	0.5535 0.5895	0.5249	0.5563	0.5518	0.5688	Ave		0.5575				3.8		15.0			
Ethyl methacrylate	0.4704 0.4865	0.4787	0.4870	0.4914	0.4968	Ave		0.4851				1.9		15.0			
1,1,2-Trichloroethane	0.3183 0.3219	0.3342	0.3260	0.3166	0.3252	Ave		0.3237				2.0		15.0			
1,3-Dichloropropane	0.6083 0.5863	0.5978	0.5892	0.5773	0.5741	Ave		0.5888				2.2		15.0			
Tetrachloroethene	0.3474 0.3368	0.3423	0.3240	0.3284	0.3357	Ave		0.3358				2.6		15.0			
2-Hexanone	0.1862 0.1696	0.1861	0.1923	0.1778	0.1837	Ave		0.1826				4.3		15.0			
Dibromochloromethane	0.3454 0.3729	0.3489	0.3391	0.3531	0.3605	Ave		0.3533				3.4		15.0			
1,2-Dibromoethane	0.3265 0.3291	0.3332	0.3338	0.3265	0.3336	Ave		0.3304				1.1		15.0			
Chlorobenzene	1.1352 1.1157	1.0657	1.0775	1.0492	1.0730	Ave		1.0860			0.3000	3.0		15.0			
1,1,1,2-Tetrachloroethane	0.3610 0.3689	0.3490	0.3624	0.3468	0.3648	Ave		0.3588				2.5		15.0			
Ethylbenzene	0.6471 0.6012	0.5717	0.5866	0.5657	0.5993	Ave		0.5952				4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	0.7514 0.7563	0.7162	0.7194	0.7116	0.7351	Ave		0.7317				2.6		15.0			
o-Xylene	0.7188 0.6877	0.6968	0.6813	0.6655	0.6778	Ave		0.6880				2.7		15.0			
Styrene	1.1931 1.1812	1.1166	1.1501	1.1249	1.1714	Ave		1.1562				2.7		15.0			
Bromoform	0.1696 0.1758	0.1756	0.1682	0.1834	0.1844	Ave		0.1762			0.1000	3.8		15.0			
Isopropylbenzene	1.6949 1.6644	1.6381	1.6453	1.6206	1.6542	Ave		1.6529				1.5		15.0			
1,1,2,2-Tetrachloroethane	0.8257 0.7345	0.8242	0.8369	0.7830	0.7938	Ave		0.7997			0.3000	4.8		15.0			
Bromobenzene	1.2416 1.1110	1.1784	1.1941	1.1215	1.1317	Ave		1.1631				4.3		15.0			
1,2,3-Trichloropropane	0.3185 0.2493	0.2993	0.2859	0.2707	0.2737	Ave		0.2829				8.5		15.0			
trans-1,4-Dichloro-2-butene	0.1228 0.1409	0.1270	0.1345	0.1501	0.1523	Ave		0.1379				8.7		15.0			
N-Propylbenzene	1.2972 1.2016	1.2518	1.2358	1.2105	1.2599	Ave		1.2428				2.8		15.0			
2-Chlorotoluene	1.1521 0.9515	1.0418	1.0579	0.9700	1.0061	Ave		1.0299				7.0		15.0			
1,3,5-Trimethylbenzene	3.3809 3.1612	3.3046	3.3624	3.2452	3.2844	Ave		3.2898				2.4		15.0			
4-Chlorotoluene	1.1135 0.9369	1.0086	1.0290	0.9518	0.9802	Ave		1.0033				6.4		15.0			
tert-Butylbenzene	3.0687 2.6123	2.8660	2.8552	2.7333	2.7823	Ave		2.8196				5.4		15.0			
1,2,4-Trimethylbenzene	3.1603 2.8657	2.9825	3.0184	2.8782	2.9676	Ave		2.9788				3.6		15.0			
sec-Butylbenzene	3.7057 3.2981	3.5130	3.5709	3.4328	3.4859	Ave		3.5011				3.9		15.0			
1,3-Dichlorobenzene	1.7023 1.5635	1.5498	1.5848	1.4870	1.5451	Ave		1.5721				4.6		15.0			
p-Isopropyltoluene	2.8521 2.6145	2.5981	2.6987	2.5662	2.6202	Ave		2.6583				3.9		15.0			
1,4-Dichlorobenzene	1.6947 1.6237	1.6387	1.6396	1.5116	1.5711	Ave		1.6132				3.9		15.0			
n-Butylbenzene	2.1341 2.2195	2.0519	2.1378	2.0439	2.1393	Ave		2.1211				3.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.5587 1.5188	1.5024	1.5206	1.4546	1.5126	Ave		1.5113				2.2		15.0			
1,2-Dibromo-3-Chloropropane	0.1486 0.1346	0.1420	0.1545	0.1505	0.1574	Ave		0.1479				5.7		15.0			
1,3,5-Trichlorobenzene	1.1352 0.9729	1.0376	1.0366	0.9913	1.0399	Ave		1.0356				5.4		15.0			
1,2,4-Trichlorobenzene	0.9786 0.8311	0.9570	0.9797	0.9144	0.9479	Ave		0.9348				6.0		15.0			
Hexachlorobutadiene	0.4364 0.3413	0.4088	0.4266	0.3927	0.4028	Ave		0.4014				8.3		15.0			
Naphthalene	2.7074 1.9207	2.5124	2.5315	2.4135	2.4828	Ave		2.4281				11.0		15.0			
1,2,3-Trichlorobenzene	0.8793 0.6172	0.8643	0.8446	0.8098	0.8037	Ave		0.8031				12.0		15.0			
Dibromofluoromethane (Surr)	0.2458 0.2472	0.2441	0.2480	0.2385	0.2336	Ave		0.2429				2.3		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3370 0.2978	0.3172	0.3123	0.2895	0.2880	Ave		0.3070				6.2		15.0			
Toluene-d8 (Surr)	1.5285 1.5297	1.4881	1.4794	1.4433	1.4491	Ave		1.4863				2.5		15.0			
4-Bromofluorobenzene (Surr)	0.4706 0.3986	0.4623	0.4434	0.4197	0.4166	Ave		0.4352				6.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-47806/9	UXJ5157.D
Level 2	STD8260 240-47806/8	UXJ5156.D
Level 3	STD8260 240-47806/7	UXJ5155.D
Level 4	STD8260 240-47806/6	UXJ5154.D
Level 5	STD8260 240-47806/5	UXJ5153.D
Level 6	STD8260 240-47806/4	UXJ5152.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	36953 1552204	72233	173694	420659	842119	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	69759 2670221	133493	310960	594756	1268434	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	59543 2584387	122447	302896	604839	1244203	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	15905 890626	33745	107809	188831	421471	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	19536 934770	38493	118482	194024	444979	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	51403 2248736	98044	255536	553636	1175568	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	59619 2656399	127901	335513	654307	1343595	10.0 400	20.0	50.0	100	200
1,1-Dichloroethene	FB	Ave	43569 1744658	85089	217276	428623	879972	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	35694 811508	64018	121074	215340	410427	2.00 80.0	4.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trichfluoroet hane	FB	Ave	27734 1154686	54681	146540	326679	668532	1.00 40.0	2.00	5.00	10.0	20.0
Iodomethane	FB	Ave	59578 2487169	113196	313652	582218	1200164	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	147799 6085988	277004	716702	1429621	2974776	1.00 40.0	2.00	5.00	10.0	20.0
Acetonitrile	FB	Ave	47421 1601737	93190	215320	443155	825729	10.0 400	20.0	50.0	100	200
Methyl acetate	FB	Ave	66757 2247641	121765	300526	569538	1150211	2.00 80.0	4.00	10.0	20.0	40.0
Methylene Chloride	FB	Lin1	86957 1971050	126454	267466	479547	944992	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	77082 2389058	145202	337395	649482	1259976	20.0 800	40.0	100	200	400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	30583 1201307	65401	161155	299152	601866	2.00 80.0	4.00	10.0	20.0	40.0
Methyl tert-butyl ether	FB	Ave	144610 5616589	273988	695738	1336549	2739406	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	53200 2052390	95762	251572	477615	983406	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	10184 440048	20373	51683	127279	257743	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	87259 3469483	166988	403533	788442	1622843	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	9049 422890	18851	52656	96316	207151	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	37028 1254922	69774	180554	319796	655036	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	56234 2272163	110762	274947	521306	1061629	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	51299 1989909	93599	241813	492602	1001005	1.00 40.0	2.00	5.00	10.0	20.0
Bromochloromethane	FB	Ave	26327 1053260	52810	128533	241844	499440	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	12630 427287	23614	55101	110424	222249	1.00 40.0	2.00	5.00	10.0	20.0
Chloroform	FB	Ave	89611 3473446	167582	422251	807519	1630969	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	65488 2691818	128183	325336	648681	1315465	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	74828 2931031	137762	352492	793812	1644424	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	72510 2817473	131826	336168	663385	1359576	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	54915 2332076	104693	274303	562968	1154780	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	63777 2563605	125671	319380	599270	1207398	1.00 40.0	2.00	5.00	10.0	20.0
Benzene	FB	Ave	216153 8709580	411347	1026549	1975734	4050820	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	57129 2219461	108540	262677	500451	1041815	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	52827 2014612	96331	241607	469835	950636	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	73522 2963010	131495	345478	807585	1677772	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dibromomethane	FB	Ave	29415 1116442	51310	136588	267886	548004	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	24163 802595	47654	114638	228990	428183	50.0 2000	100	250	500	1000
Bromodichloromethane	FB	Ave	64046 2660505	120147	302224	596133	1235804	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	54832 2462468	120924	306119	574980	1177675	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	79845 3456813	160233	403588	764852	1589985	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	73599 2742272	148233	366016	676169	1385862	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	236221 9692354	444142	1137360	2149978	4467445	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	70807 3056252	133575	356111	690899	1431257	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	60175 2522073	121810	311764	615179	1250098	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	40723 1668922	85047	208683	396425	818311	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	77822 3039460	152135	377141	722743	1444496	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	44443 1746098	87110	207431	411112	844594	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	47652 1758169	94703	246193	445101	924567	2.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Ave	44184 1933473	88791	217041	442085	907156	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	41772 1706313	84787	213674	408780	839250	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	145235 5784104	271190	689762	1313653	2699654	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	46187 1912273	88805	232012	434146	917961	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	82788 3116579	145476	375513	708204	1507823	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	192254 7841847	364535	921044	1781979	3699322	2.00 80.0	4.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	91954 3565073	177312	436122	833208	1705408	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	152642 6123851	284158	736233	1408436	2947421	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	21694 911515	44687	107704	229569	463852	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	216830 8628620	416872	1053226	2029011	4162244	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	33023 1173098	65969	165443	307670	615869	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	49657 1774340	94324	236043	440675	877994	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	12739 398208	23959	56522	106351	212318	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	4910 224966	10164	26578	58978	118122	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	51884 1919146	100194	244288	475646	977483	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	46078 1519614	83391	209111	381144	780548	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	135221 5048827	264505	664651	1275119	2548095	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	44533 1496284	80730	203398	373978	760460	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	122735 4172090	229402	564408	1073953	2158565	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	126398 4576834	238726	596669	1130907	2302309	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	148212 5267508	281185	705866	1348810	2704416	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	68083 2497052	124045	313269	584286	1198744	1.00 40.0	2.00	5.00	10.0	20.0
p-Isopropyltoluene	DCB	Ave	114071 4175679	207958	533456	1008298	2032797	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	67779 2593184	131165	324116	593936	1218866	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	85355 3544819	164235	422583	803084	1659731	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	62339 2425650	120255	300588	571548	1173472	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	5942 214974	11366	30541	59130	122121	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	45402 1553784	83054	204916	389508	806781	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	39138 1327322	76596	193661	359296	735368	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Hexachlorobutadiene	DCB	Ave	17453 545168	32718	84322	154283	312502	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	108284 3067600	201100	500414	948302	1926221	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	35167 985660	69177	166947	318186	623495	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	43128 1781467	85352	215690	411726	820071	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	59113 2145819	110926	271583	499689	1010987	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	195549 7930382	378691	947034	1807034	3645980	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	60209 2066328	117649	283822	525437	1048181	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5152.D
 Lims ID: STD8260 L6 Client ID:
 Inject. Date: 19-Jun-2012 13:56:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: 240-0010834-004
 Misc. Info.: J20618A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 3
 Lims Batch ID: 47806 Lims Sample ID: 4
 Sublist: chrom-8260_11*sub11
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:38 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1801312	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	83	1296079	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	67	399278	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	96	1781467	40.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	87	2145819	38.8	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	93	7930382	41.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	91	2066328	36.6	
8 Dichlorodifluoromethane	85	1.565	1.553	0.012	88	1552204	39.3	
9 Chloromethane	50	1.684	1.684	0.0	89	2670221	40.2	
10 Vinyl chloride	62	1.778	1.778	0.0	83	2584387	41.0	
11 Bromomethane	94	2.062	2.062	0.0	89	890626	44.7	
12 Chloroethane	64	2.157	2.157	0.0	94	934770	42.9	
14 Trichlorofluoromethane	101	2.358	2.358	0.0	86	2248736	40.8	
16 Acrolein	56	2.642	2.642	0.0	95	2656399	398.2	
19 1,1-Dichloroethene	96	2.737	2.737	0.0	90	1744658	39.2	
17 Acetone	43	2.760	2.760	0.0	99	811508	79.0	
18 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.784	2.796	-0.012	83	1154686	37.6	
21 Iodomethane	142	2.867	2.867	0.0	97	2487169	40.4	
23 Carbon disulfide	76	2.938	2.938	0.0	99	6085988	40.7	
24 Acetonitrile	41	2.985	2.985	0.0	99	1601737	356.0	
25 Methyl acetate	43	3.032	3.033	0.0	88	2247641	73.3	
26 Methylene Chloride	84	3.127	3.127	0.0	78	1971050	40.7	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	98	2389058	689.2	
28 Acrylonitrile	53	3.305	3.317	-0.011	99	1201307	75.6	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	86	5616589	39.5	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	94	2052390	40.0	
31 Hexane	86	3.577	3.577	0.0	90	440048	38.2	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	85	3469483	40.7	
33 Vinyl acetate	86	3.719	3.719	0.0	97	422890	41.5	
38 2-Butanone (MEK)	43	4.157	4.157	0.0	55	1254922	71.8	
40 cis-1,2-Dichloroethene	96	4.168	4.168	0.0	68	2272163	40.4	
39 2,2-Dichloropropane	77	4.168	4.168	0.0	80	1989909	39.3	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 Chlorobromomethane	128	4.358	4.358	0.0	93	1053260	40.0	
44 Tetrahydrofuran	42	4.405	4.405	0.0	86	427287	36.5	
45 Chloroform	83	4.417	4.417	0.0	79	3473446	40.0	
46 1,1,1-Trichloroethane	97	4.594	4.594	0.0	88	2691818	40.1	
47 Cyclohexane	56	4.642	4.642	0.0	86	2931031	38.1	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	95	2817473	40.1	
49 Carbon tetrachloride	117	4.736	4.736	0.0	76	2332076	40.7	
52 Benzene	78	4.890	4.890	0.0	93	8709580	40.9	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	45	2563605	40.0	
56 Trichloroethene	130	5.435	5.435	0.0	93	2219461	40.3	
58 Methylcyclohexane	83	5.612	5.612	0.0	87	2963010	38.7	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	92	2014612	40.0	
62 1,4-Dioxane	88	5.719	5.719	0.0	89	802595	1731.8	
61 Dibromomethane	93	5.707	5.719	-0.012	91	1116442	39.7	
63 Dichlorobromomethane	83	5.837	5.837	0.0	91	2660505	41.7	
65 2-Chloroethyl vinyl ether	63	6.085	6.085	0.0	92	2462468	81.2	
66 cis-1,3-Dichloropropene	75	6.227	6.227	0.0	91	3456813	41.8	
67 4-Methyl-2-pentanone (MIBK)	43	6.358	6.346	0.012	94	2742272	75.1	
68 Toluene	91	6.535	6.535	0.0	91	9692354	41.8	
69 trans-1,3-Dichloropropene	75	6.713	6.713	0.0	87	3056252	42.3	
70 Ethyl methacrylate	69	6.784	6.784	0.0	88	2522073	40.1	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	84	1668922	39.8	
72 Tetrachloroethene	164	7.032	7.032	0.0	75	1746098	40.1	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	88	3039460	39.8	
74 2-Hexanone	43	7.091	7.091	0.0	93	1758169	74.3	
76 Chlorodibromomethane	129	7.245	7.245	0.0	87	1933473	42.2	
77 Ethylene Dibromide	107	7.352	7.352	0.0	98	1706313	39.8	
79 Chlorobenzene	112	7.813	7.813	0.0	95	5784104	41.1	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	83	1912273	41.1	
81 Ethylbenzene	106	7.908	7.908	0.0	98	3116579	40.4	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	7841847	82.7	
83 o-Xylene	106	8.393	8.393	0.0	93	3565073	40.0	
84 Styrene	104	8.405	8.405	0.0	91	6123851	40.9	
85 Bromoform	173	8.582	8.582	0.0	95	911515	39.9	
86 Isopropylbenzene	105	8.748	8.748	0.0	94	8628620	40.3	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	81	1173098	36.7	
89 Bromobenzene	156	9.044	9.044	0.0	94	1774340	38.2	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	68	398208	35.3	
91 trans-1,4-Dichloro-2-butene	53	9.079	9.079	0.0	61	224966	40.9	
92 N-Propylbenzene	120	9.150	9.150	0.0	97	1919146	38.7	
93 2-Chlorotoluene	126	9.233	9.233	0.0	96	1519614	37.0	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	92	5048827	38.4	
95 4-Chlorotoluene	126	9.339	9.339	0.0	98	1496284	37.4	
96 tert-Butylbenzene	119	9.635	9.635	0.0	80	4172090	37.1	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	96	4576834	38.5	
98 sec-Butylbenzene	105	9.860	9.860	0.0	93	5267508	37.7	
99 1,3-Dichlorobenzene	146	9.967	9.967	0.0	97	2497052	39.8	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	91	4175679	39.3	
101 1,4-Dichlorobenzene	146	10.049	10.049	0.0	93	2593184	40.3	
103 n-Butylbenzene	91	10.404	10.404	0.0	95	3544819	41.9	
104 1,2-Dichlorobenzene	146	10.428	10.416	0.012	98	2425650	40.2	
105 1,2-Dibromo-3-Chloropropane	157	11.185	11.185	0.0	85	214974	36.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,3,5-Trichlorobenzene	180	11.410	11.410	0.0	94	1553784	37.6	
107 1,2,4-Trichlorobenzene	180	12.026	12.026	0.0	94	1327322	35.6	
108 Hexachlorobutadiene	225	12.203	12.203	0.0	92	545168	34.0	
109 Naphthalene	128	12.274	12.274	0.0	97	3067600	31.6	
110 1,2,3-Trichlorobenzene	180	12.522	12.523	0.0	95	985660	30.7	
S 138 Trihalomethanes, Total	1				0		163.9	
S 112 1,2-Dichloroethene, Total	96				0		80.4	
S 113 1,3-Dichloropropene, Total	75				0		84.1	
S 114 Xylenes, Total	106				0		122.7	

Report Date: 20-Jun-2012 09:22:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5152.D

Injection Date: 19-Jun-2012 13:56:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

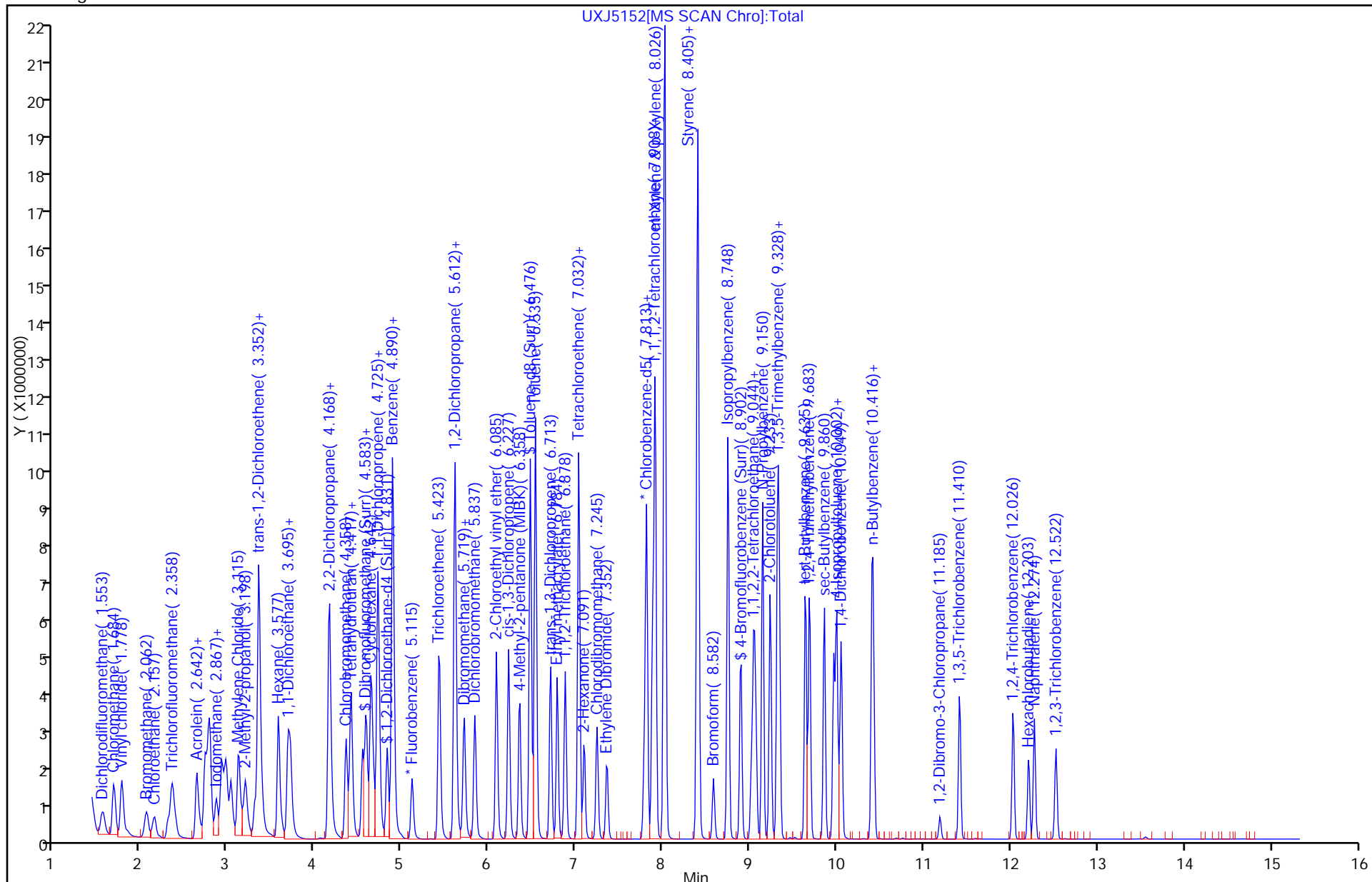
Lims Sample ID: 4

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5153.D
 Lims ID: STD8260 L5 Client ID:
 Inject. Date: 19-Jun-2012 14:18:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: 240-0010834-005
 Misc. Info.: J20618A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 4
 Lims Batch ID: 47806 Lims Sample ID: 5
 Sublist: chrom-8260_11*sub11
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:39 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1755363	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	82	1258050	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	77	387907	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	98	820071	19.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	88	1010987	18.8	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	93	3645980	19.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	91	1048181	19.1	
8 Dichlorodifluoromethane	85	1.553	1.553	0.0	88	842119	21.9	
9 Chloromethane	50	1.683	1.684	-0.001	89	1268434	19.6	
10 Vinyl chloride	62	1.778	1.778	0.0	82	1244203	20.2	
11 Bromomethane	94	2.062	2.062	0.0	89	421471	21.7	
12 Chloroethane	64	2.157	2.157	0.0	95	444979	20.9	
14 Trichlorofluoromethane	101	2.358	2.358	0.0	86	1175568	21.9	
16 Acrolein	56	2.642	2.642	0.0	95	1343595	206.7	
19 1,1-Dichloroethene	96	2.737	2.737	0.0	89	879972	20.3	
17 Acetone	43	2.760	2.760	0.0	99	410427	40.0	
18 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.796	2.796	0.0	83	668532	22.3	
21 Iodomethane	142	2.867	2.867	0.0	97	1200164	20.0	
23 Carbon disulfide	76	2.938	2.938	0.0	98	2974776	20.4	
24 Acetonitrile	41	2.985	2.985	0.0	95	825729	188.3	
25 Methyl acetate	43	3.032	3.033	0.0	89	1150211	38.5	
26 Methylene Chloride	84	3.127	3.127	0.0	77	944992	19.6	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	99	1259976	373.0	
28 Acrylonitrile	53	3.305	3.317	-0.011	98	601866	38.9	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	86	2739406	19.7	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	95	983406	19.7	
31 Hexane	86	3.589	3.577	0.012	89	257743	22.9	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	85	1622843	19.5	
33 Vinyl acetate	86	3.719	3.719	0.0	97	207151	20.9	
38 2-Butanone (MEK)	43	4.157	4.157	0.0	59	655036	38.5	
40 cis-1,2-Dichloroethene	96	4.168	4.168	0.0	75	1061629	19.4	
39 2,2-Dichloropropane	77	4.168	4.168	0.0	83	1001005	20.3	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 Chlorobromomethane	128	4.358	4.358	0.0	87	499440	19.5	
44 Tetrahydrofuran	42	4.405	4.405	0.0	85	222249	19.5	
45 Chloroform	83	4.417	4.417	0.0	81	1630969	19.3	
46 1,1,1-Trichloroethane	97	4.583	4.594	-0.011	89	1315465	20.1	
47 Cyclohexane	56	4.654	4.642	0.012	87	1644424	21.9	
48 1,1-Dichloropropene	75	4.725	4.725	-0.001	94	1359576	19.9	
49 Carbon tetrachloride	117	4.736	4.736	0.0	79	1154780	20.7	
52 Benzene	78	4.890	4.890	0.0	94	4050820	19.5	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	46	1207398	19.3	
56 Trichloroethene	130	5.434	5.435	-0.001	92	1041815	19.4	
58 Methylcyclohexane	83	5.612	5.612	0.0	88	1677772	22.5	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	91	950636	19.4	
62 1,4-Dioxane	88	5.718	5.719	-0.001	88	428183	948.1	
61 Dibromomethane	93	5.707	5.719	-0.012	89	548004	20.0	
63 Dichlorobromomethane	83	5.837	5.837	0.0	94	1235804	19.9	
65 2-Chloroethyl vinyl ether	63	6.085	6.085	0.0	93	1177675	39.8	
66 cis-1,3-Dichloropropene	75	6.227	6.227	0.0	92	1589985	19.7	
67 4-Methyl-2-pentanone (MIBK)	43	6.346	6.346	0.0	94	1385862	39.0	
68 Toluene	91	6.535	6.535	0.0	91	4467445	19.9	
69 trans-1,3-Dichloropropene	75	6.712	6.713	-0.001	88	1431257	20.4	
70 Ethyl methacrylate	69	6.783	6.784	-0.001	88	1250098	20.5	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	87	818311	20.1	
72 Tetrachloroethene	164	7.032	7.032	0.0	77	844594	20.0	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	89	1444496	19.5	
74 2-Hexanone	43	7.091	7.091	0.0	93	924567	40.2	
76 Chlorodibromomethane	129	7.245	7.245	0.0	87	907156	20.4	
77 Ethylene Dibromide	107	7.351	7.352	-0.001	98	839250	20.2	
79 Chlorobenzene	112	7.813	7.813	0.0	94	2699654	19.8	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	89	917961	20.3	
81 Ethylbenzene	106	7.908	7.908	0.0	98	1507823	20.1	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	3699322	40.2	
83 o-Xylene	106	8.393	8.393	0.0	92	1705408	19.7	
84 Styrene	104	8.405	8.405	0.0	91	2947421	20.3	
85 Bromoform	173	8.582	8.582	0.0	96	463852	20.9	
86 Isopropylbenzene	105	8.748	8.748	0.0	95	4162244	20.0	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	86	615869	19.9	
89 Bromobenzene	156	9.044	9.044	0.0	87	877994	19.5	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	69	212318	19.3	
91 trans-1,4-Dichloro-2-butene	53	9.079	9.079	0.0	61	118122	22.1	
92 N-Propylbenzene	120	9.150	9.150	0.0	98	977483	20.3	
93 2-Chlorotoluene	126	9.233	9.233	0.0	96	780548	19.5	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	93	2548095	20.0	
95 4-Chlorotoluene	126	9.339	9.339	0.0	98	760460	19.5	
96 tert-Butylbenzene	119	9.635	9.635	0.0	80	2158565	19.7	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	-0.001	96	2302309	19.9	
98 sec-Butylbenzene	105	9.860	9.860	0.0	93	2704416	19.9	
99 1,3-Dichlorobenzene	146	9.966	9.967	-0.001	91	1198744	19.7	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	91	2032797	19.7	
101 1,4-Dichlorobenzene	146	10.049	10.049	0.0	93	1218866	19.5	
103 n-Butylbenzene	91	10.404	10.404	0.0	95	1659731	20.2	
104 1,2-Dichlorobenzene	146	10.428	10.416	0.012	99	1173472	20.0	
105 1,2-Dibromo-3-Chloropropane	157	11.185	11.185	0.0	80	122121	21.3	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,3,5-Trichlorobenzene	180	11.410	11.410	0.0	97	806781	20.1	
107 1,2,4-Trichlorobenzene	180	12.025	12.026	-0.001	93	735368	20.3	
108 Hexachlorobutadiene	225	12.203	12.203	0.0	91	312502	20.1	
109 Naphthalene	128	12.274	12.274	0.0	97	1926221	20.5	
110 1,2,3-Trichlorobenzene	180	12.522	12.523	0.0	95	623495	20.0	
S 138 Trihalomethanes, Total	1				0		80.5	
S 112 1,2-Dichloroethene, Total	96				0		39.1	
S 113 1,3-Dichloropropene, Total	75				0		40.1	
S 114 Xylenes, Total	106				0		59.9	

Report Date: 20-Jun-2012 09:22:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5153.D

Injection Date: 19-Jun-2012 14:18:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

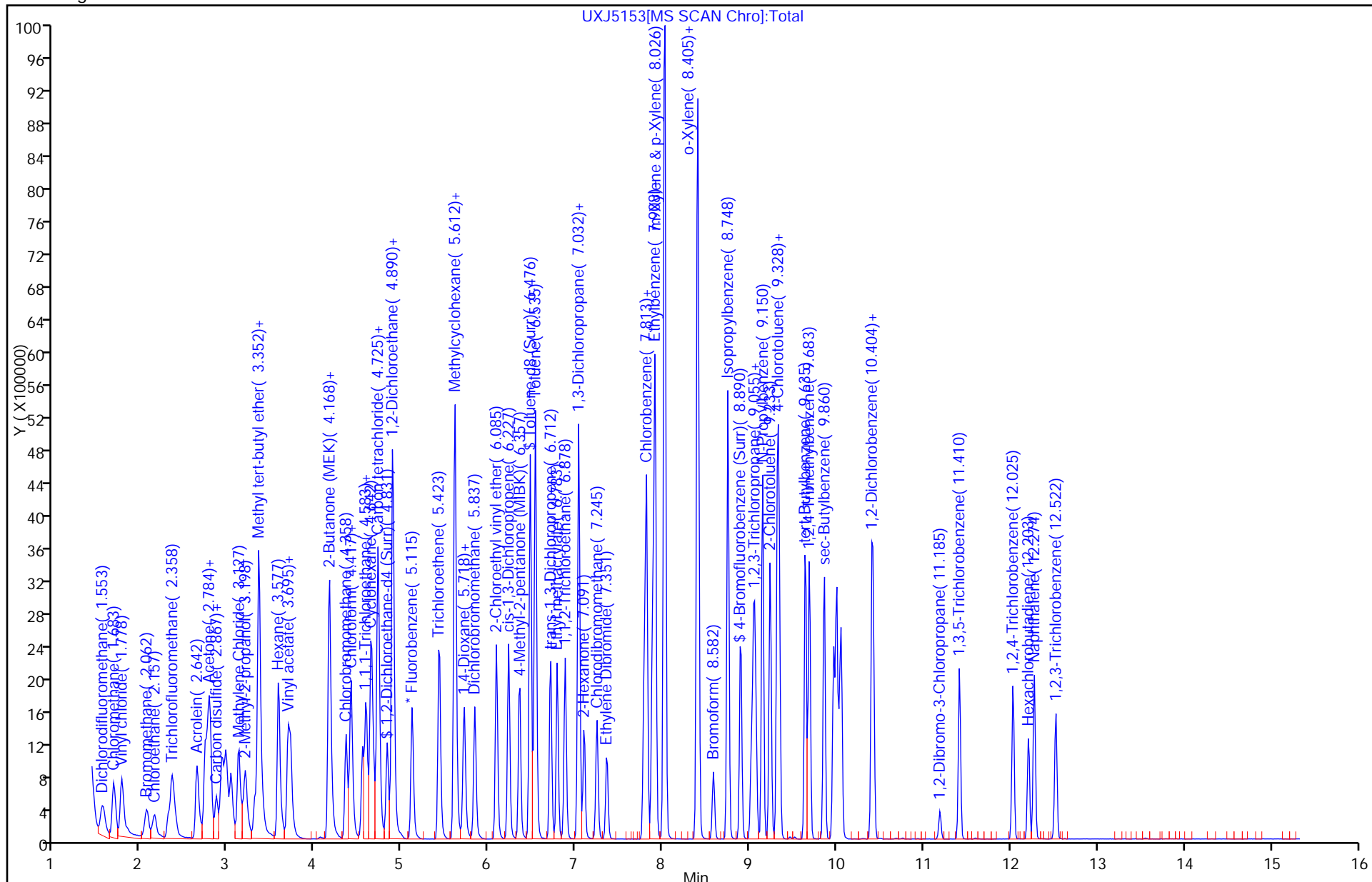
Lims Sample ID: 5

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5154.D
 Lims ID: STD8260 L4 Client ID:
 Inject. Date: 19-Jun-2012 14:41:30 Dil. Factor: 1.0000
 Sample Type: ICIS Calib Level: 4
 Sample ID: 240-0010834-005
 Misc. Info.: J20618A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 5
 Lims Batch ID: 47806 Lims Sample ID: 6
 Sublist: chrom-8260_11*sub11
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:39 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1726050	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	85	1252017	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	83	392921	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	95	411726	9.82	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	89	499689	9.43	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	83	1807034	9.71	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	91	525437	9.64	
8 Dichlorodifluoromethane	85	1.553	1.553	0.0	87	420659	11.1	
9 Chloromethane	50	1.684	1.684	0.0	99	594756	9.34	
10 Vinyl chloride	62	1.778	1.778	0.0	82	604839	10.0	
11 Bromomethane	94	2.062	2.062	0.0	87	188831	9.88	
12 Chloroethane	64	2.157	2.157	0.0	94	194024	9.28	
14 Trichlorofluoromethane	101	2.358	2.358	0.0	85	553636	10.5	
16 Acrolein	56	2.642	2.642	0.0	93	654307	102.4	
19 1,1-Dichloroethene	96	2.737	2.737	0.0	90	428623	10.0	
17 Acetone	43	2.760	2.760	0.0	100	215340	20.4	
18 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.796	2.796	0.0	90	326679	11.1	
21 Iodomethane	142	2.867	2.867	0.0	96	582218	9.88	
23 Carbon disulfide	76	2.938	2.938	0.0	98	1429621	9.98	
24 Acetonitrile	41	2.985	2.985	0.0	94	443155	102.8	
25 Methyl acetate	43	3.033	3.033	0.0	89	569538	19.4	
26 Methylene Chloride	84	3.127	3.127	0.0	79	479547	9.72	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	98	649482	195.5	
28 Acrylonitrile	53	3.317	3.317	0.0	96	299152	19.7	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	87	1336549	9.80	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	62	477615	9.72	
31 Hexane	86	3.577	3.577	0.0	91	127279	11.5	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	85	788442	9.65	
33 Vinyl acetate	86	3.719	3.719	0.0	97	96316	9.86	
38 2-Butanone (MEK)	43	4.157	4.157	0.0	62	319796	19.1	
40 cis-1,2-Dichloroethene	96	4.168	4.168	0.0	69	521306	9.67	
39 2,2-Dichloropropane	77	4.168	4.168	0.0	75	492602	10.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 Chlorobromomethane	128	4.358	4.358	0.0	90	241844	9.58	
44 Tetrahydrofuran	42	4.405	4.405	0.0	85	110424	9.86	
45 Chloroform	83	4.417	4.417	0.0	91	807519	9.71	
46 1,1,1-Trichloroethane	97	4.594	4.594	0.0	88	648681	10.1	
47 Cyclohexane	56	4.642	4.642	0.0	86	793812	10.8	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	94	663385	9.86	
49 Carbon tetrachloride	117	4.736	4.736	0.0	79	562968	10.3	
52 Benzene	78	4.890	4.890	0.0	94	1975734	9.68	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	46	599270	9.75	
56 Trichloroethene	130	5.435	5.435	0.0	94	500451	9.49	
58 Methylcyclohexane	83	5.612	5.612	0.0	88	807585	11.0	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	89	469835	9.74	
62 1,4-Dioxane	88	5.719	5.719	0.0	88	228990	515.6	
61 Dibromomethane	93	5.719	5.719	0.0	91	267886	9.93	
63 Dichlorobromomethane	83	5.837	5.837	0.0	94	596133	9.76	
65 2-Chloroethyl vinyl ether	63	6.085	6.085	0.0	92	574980	19.8	
66 cis-1,3-Dichloropropene	75	6.227	6.227	0.0	92	764852	9.66	
67 4-Methyl-2-pentanone (MIBK)	43	6.346	6.346	0.0	94	676169	19.3	
68 Toluene	91	6.535	6.535	0.0	92	2149978	9.60	
69 trans-1,3-Dichloropropene	75	6.713	6.713	0.0	87	690899	9.90	
70 Ethyl methacrylate	69	6.784	6.784	0.0	87	615179	10.1	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	86	396425	9.78	
72 Tetrachloroethene	164	7.032	7.032	0.0	75	411112	9.78	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	88	722743	9.80	
74 2-Hexanone	43	7.091	7.091	0.0	93	445101	19.5	
76 Chlorodibromomethane	129	7.245	7.245	0.0	85	442085	10.0	
77 Ethylene Dibromide	107	7.352	7.352	0.0	98	408780	9.88	
79 Chlorobenzene	112	7.813	7.813	0.0	93	1313653	9.66	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	88	434146	9.66	
81 Ethylbenzene	106	7.908	7.908	0.0	98	708204	9.50	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	1781979	19.5	
83 o-Xylene	106	8.393	8.393	0.0	92	833208	9.67	
84 Styrene	104	8.405	8.405	0.0	90	1408436	9.73	
85 Bromoform	173	8.582	8.582	0.0	97	229569	10.4	
86 Isopropylbenzene	105	8.748	8.748	0.0	95	2029011	9.80	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	88	307670	9.79	
89 Bromobenzene	156	9.044	9.044	0.0	93	440675	9.64	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	70	106351	9.57	
91 trans-1,4-Dichloro-2-butene	53	9.079	9.079	0.0	56	58978	10.9	
92 N-Propylbenzene	120	9.150	9.150	0.0	97	475646	9.74	
93 2-Chlorotoluene	126	9.233	9.233	0.0	96	381144	9.42	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	92	1275119	9.86	
95 4-Chlorotoluene	126	9.339	9.339	0.0	97	373978	9.49	
96 tert-Butylbenzene	119	9.635	9.635	0.0	79	1073953	9.69	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	90	1130907	9.66	
98 sec-Butylbenzene	105	9.860	9.860	0.0	94	1348810	9.80	
99 1,3-Dichlorobenzene	146	9.967	9.967	0.0	96	584286	9.46	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	91	1008298	9.65	
101 1,4-Dichlorobenzene	146	10.049	10.049	0.0	92	593936	9.37	
103 n-Butylbenzene	91	10.404	10.404	0.0	97	803084	9.64	
104 1,2-Dichlorobenzene	146	10.416	10.416	0.0	96	571548	9.63	
105 1,2-Dibromo-3-Chloropropane	157	11.185	11.185	0.0	74	59130	10.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,3,5-Trichlorobenzene	180	11.410	11.410	0.0	96	389508	9.57	
107 1,2,4-Trichlorobenzene	180	12.026	12.026	0.0	93	359296	9.78	
108 Hexachlorobutadiene	225	12.203	12.203	0.0	91	154283	9.78	
109 Naphthalene	128	12.274	12.274	0.0	97	948302	9.94	
110 1,2,3-Trichlorobenzene	180	12.523	12.523	0.0	96	318186	10.1	
S 138 Trihalomethanes, Total	1				0		39.9	
S 112 1,2-Dichloroethene, Total	96				0		19.4	
S 113 1,3-Dichloropropene, Total	75				0		19.6	
S 114 Xylenes, Total	106				0		29.1	

Report Date: 20-Jun-2012 09:22:40

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5154.D

Injection Date: 19-Jun-2012 14:41:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

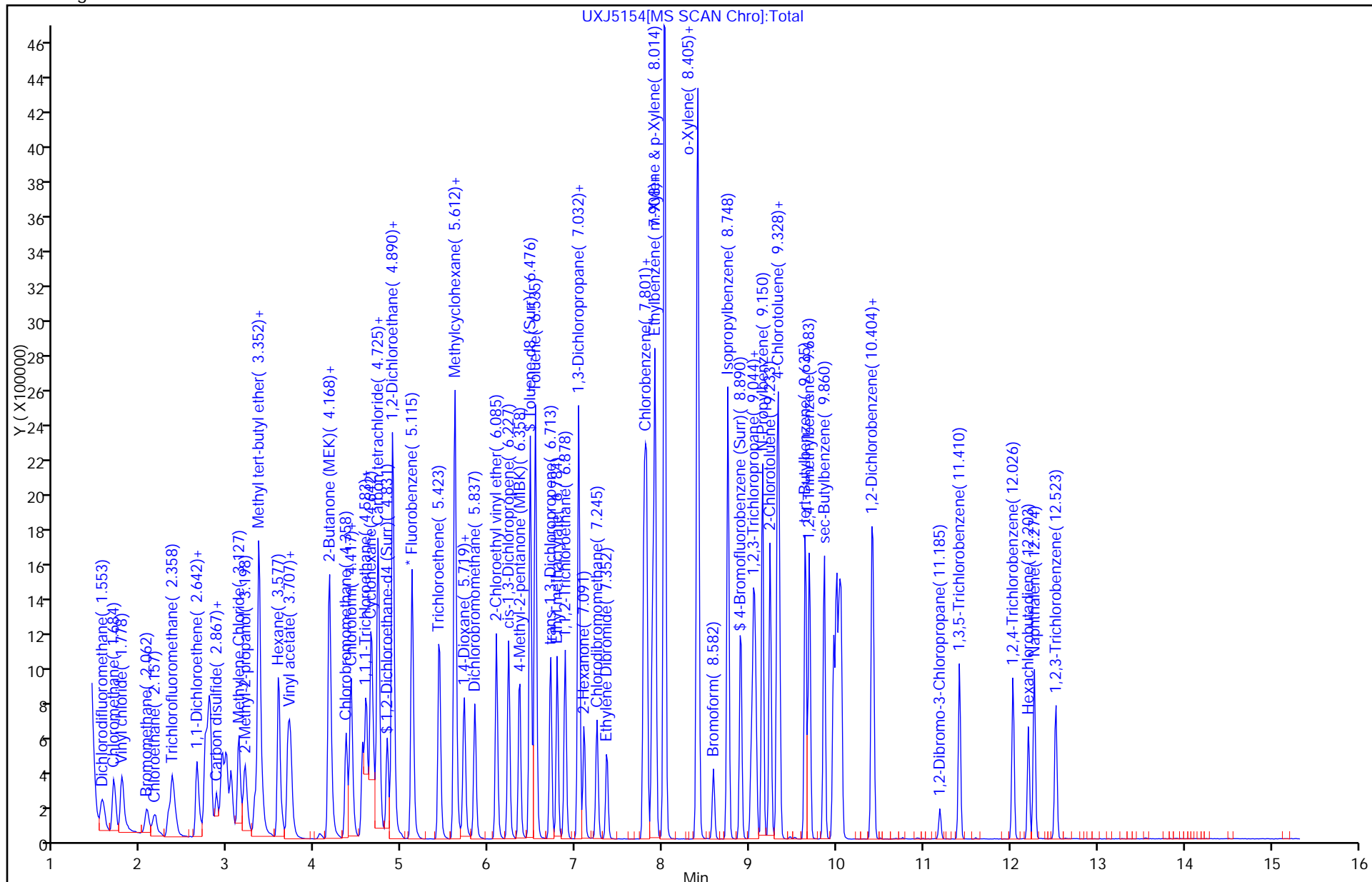
Lims Sample ID: 6

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5155.D
 Lims ID: STD8260 L3 Client ID:
 Inject. Date: 19-Jun-2012 15:04:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: 240-0010834-005
 Misc. Info.: J20618A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 6
 Lims Batch ID: 47806 Lims Sample ID: 7
 Sublist: chrom-8260_11*sub11
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:40 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1739474	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	84	1280288	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	90	395349	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	95	215690	5.11	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	90	271583	5.09	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	83	947034	4.98	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	90	283822	5.09	
8 Dichlorodifluoromethane	85	1.565	1.553	0.012	84	173694	4.55	
9 Chloromethane	50	1.684	1.684	0.0	89	310960	4.85	
10 Vinyl chloride	62	1.778	1.778	0.0	82	302896	4.97	
11 Bromomethane	94	2.062	2.062	0.0	86	107809	5.60	
12 Chloroethane	64	2.157	2.157	0.0	98	118482	5.62	
14 Trichlorofluoromethane	101	2.358	2.358	0.0	86	255536	4.80	
16 Acrolein	56	2.642	2.642	0.0	96	335513	52.1	
19 1,1-Dichloroethene	96	2.749	2.737	0.012	88	217276	5.05	
17 Acetone	43	2.772	2.760	0.012	99	121074	10.5	
18 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.784	2.796	-0.012	85	146540	4.94	
21 Iodomethane	142	2.867	2.867	0.0	98	313652	5.28	
23 Carbon disulfide	76	2.938	2.938	0.0	98	716702	4.97	
24 Acetonitrile	41	2.985	2.985	0.0	94	215320	49.6	
25 Methyl acetate	43	3.033	3.033	0.001	89	300526	10.1	
26 Methylene Chloride	84	3.127	3.127	0.0	83	267466	5.02	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	99	337395	100.8	
28 Acrylonitrile	53	3.305	3.317	-0.011	99	161155	10.5	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	86	695738	5.06	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	62	251572	5.08	
31 Hexane	86	3.589	3.577	0.012	91	51683	4.64	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	96	403533	4.90	
33 Vinyl acetate	86	3.719	3.719	0.0	97	52656	5.35	
38 2-Butanone (MEK)	43	4.157	4.157	0.0	61	180554	10.7	
40 cis-1,2-Dichloroethene	96	4.157	4.168	-0.011	68	274947	5.06	
39 2,2-Dichloropropane	77	4.168	4.168	0.0	84	241813	4.95	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 Chlorobromomethane	128	4.358	4.358	0.0	87	128533	5.05	
44 Tetrahydrofuran	42	4.405	4.405	0.0	84	55101	4.88	
45 Chloroform	83	4.417	4.417	0.0	81	422251	5.04	
46 1,1,1-Trichloroethane	97	4.583	4.594	-0.011	87	325336	5.01	
47 Cyclohexane	56	4.642	4.642	0.0	88	352492	4.75	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	94	336168	4.96	
49 Carbon tetrachloride	117	4.736	4.736	0.0	72	274303	4.96	
52 Benzene	78	4.890	4.890	0.0	94	1026549	4.99	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	53	319380	5.15	
56 Trichloroethene	130	5.435	5.435	0.0	94	262677	4.94	
58 Methylcyclohexane	83	5.612	5.612	0.0	87	345478	4.67	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	90	241607	4.97	
62 1,4-Dioxane	88	5.719	5.719	0.0	87	114638	256.2	
61 Dibromomethane	93	5.719	5.719	0.0	90	136588	5.02	
63 Dichlorobromomethane	83	5.837	5.837	0.0	93	302224	4.91	
65 2-Chloroethyl vinyl ether	63	6.085	6.085	0.0	92	306119	10.5	
66 cis-1,3-Dichloropropene	75	6.227	6.227	0.0	89	403588	5.06	
67 4-Methyl-2-pentanone (MIBK)	43	6.346	6.346	0.0	95	366016	10.4	
68 Toluene	91	6.535	6.535	0.0	92	1137360	4.97	
69 trans-1,3-Dichloropropene	75	6.713	6.713	0.0	88	356111	4.99	
70 Ethyl methacrylate	69	6.784	6.784	0.0	88	311764	5.02	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	85	208683	5.04	
72 Tetrachloroethene	164	7.032	7.032	0.0	79	207431	4.83	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	89	377141	5.00	
74 2-Hexanone	43	7.091	7.091	0.0	93	246193	10.5	
76 Chlorodibromomethane	129	7.245	7.245	0.0	89	217041	4.80	
77 Ethylene Dibromide	107	7.352	7.352	0.0	97	213674	5.05	
79 Chlorobenzene	112	7.813	7.813	0.0	93	689762	4.96	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	92	232012	5.05	
81 Ethylbenzene	106	7.908	7.908	0.0	98	375513	4.93	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	921044	9.83	
83 o-Xylene	106	8.393	8.393	0.0	92	436122	4.95	
84 Styrene	104	8.405	8.405	0.0	91	736233	4.97	
85 Bromoform	173	8.582	8.582	0.0	96	107704	4.78	
86 Isopropylbenzene	105	8.748	8.748	0.0	95	1053226	4.98	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	85	165443	5.23	
89 Bromobenzene	156	9.044	9.044	0.0	93	236043	5.13	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	72	56522	5.05	
91 trans-1,4-Dichloro-2-butene	53	9.079	9.079	0.0	50	26578	4.87	
92 N-Propylbenzene	120	9.150	9.150	0.0	98	244288	4.97	
93 2-Chlorotoluene	126	9.233	9.233	0.0	97	209111	5.14	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	92	664651	5.11	
95 4-Chlorotoluene	126	9.339	9.339	0.0	97	203398	5.13	
96 tert-Butylbenzene	119	9.635	9.635	0.0	90	564408	5.06	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	72	596669	5.07	
98 sec-Butylbenzene	105	9.860	9.860	0.0	93	705866	5.10	
99 1,3-Dichlorobenzene	146	9.967	9.967	0.0	95	313269	5.04	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	91	533456	5.08	
101 1,4-Dichlorobenzene	146	10.049	10.049	0.0	91	324116	5.08	
103 n-Butylbenzene	91	10.404	10.404	0.0	95	422583	5.04	
104 1,2-Dichlorobenzene	146	10.416	10.416	0.0	95	300588	5.03	
105 1,2-Dibromo-3-Chloropropane	157	11.185	11.185	0.0	69	30541	5.22	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,3,5-Trichlorobenzene	180	11.410	11.410	0.0	95	204916	5.01	
107 1,2,4-Trichlorobenzene	180	12.026	12.026	0.0	94	193661	5.24	
108 Hexachlorobutadiene	225	12.203	12.203	0.0	89	84322	5.31	
109 Naphthalene	128	12.274	12.274	0.0	97	500414	5.21	
110 1,2,3-Trichlorobenzene	180	12.523	12.523	0.001	94	166947	5.26	
S 138 Trihalomethanes, Total	1				0		19.5	
S 112 1,2-Dichloroethene, Total	96				0		10.1	
S 113 1,3-Dichloropropene, Total	75				0		10.0	
S 114 Xylenes, Total	106				0		14.8	

Report Date: 20-Jun-2012 09:22:40

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5155.D

Injection Date: 19-Jun-2012 15:04:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

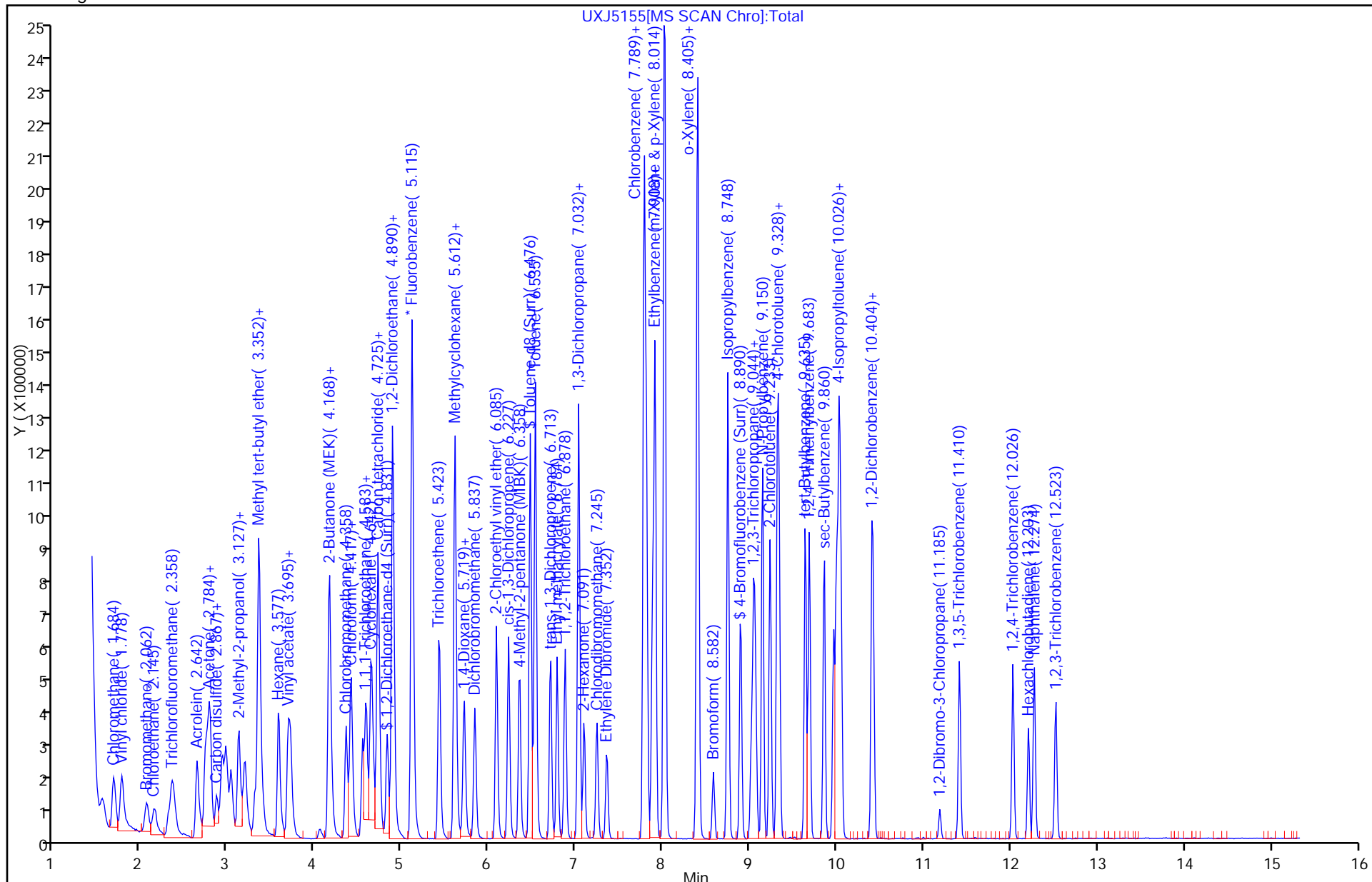
Lims Sample ID: 7

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5156.D
 Lims ID: STD8260 L2 Client ID:
 Inject. Date: 19-Jun-2012 15:26:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: 240-0010834-005
 Misc. Info.: J20618A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 7
 Lims Batch ID: 47806 Lims Sample ID: 8
 Sublist: chrom-8260_11*sub11
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:41 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1748301	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	84	1272394	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	94	400208	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	95	85352	2.01	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	93	110926	2.07	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	92	378691	2.00	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	83	117649	2.12	
8 Dichlorodifluoromethane	85	1.553	1.553	0.0	84	72233	1.88	
9 Chloromethane	50	1.695	1.684	0.011	88	133493	2.07	
10 Vinyl chloride	62	1.778	1.778	0.0	87	122447	2.00	
11 Bromomethane	94	2.062	2.062	0.0	81	33745	1.74	
12 Chloroethane	64	2.157	2.157	0.0	79	38493	1.82	
14 Trichlorofluoromethane	101	2.358	2.358	0.0	92	98044	1.83	
16 Acrolein	56	2.642	2.642	0.0	92	127901	19.8	
19 1,1-Dichloroethene	96	2.737	2.737	0.0	87	85089	1.97	
17 Acetone	43	2.772	2.760	0.012	93	64018	4.54	
18 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.796	2.796	0.0	80	54681	1.83	
21 Iodomethane	142	2.867	2.867	0.0	94	113196	1.90	
23 Carbon disulfide	76	2.973	2.938	0.035	96	277004	1.91	
24 Acetonitrile	41	2.985	2.985	0.0	96	93190	21.3	
25 Methyl acetate	43	3.032	3.033	0.0	90	121765	4.09	
26 Methylene Chloride	84	3.127	3.127	0.0	77	126454	1.93	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	97	145202	43.2	
28 Acrylonitrile	53	3.316	3.317	0.0	97	65401	4.24	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	85	273988	1.98	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	65	95762	1.92	
31 Hexane	86	3.589	3.577	0.012	86	20373	1.82	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	83	166988	2.02	
33 Vinyl acetate	86	3.719	3.719	0.0	95	18851	1.91	
38 2-Butanone (MEK)	43	4.168	4.157	0.011	57	69774	4.11	
40 cis-1,2-Dichloroethene	96	4.168	4.168	0.0	67	110762	2.03	
39 2,2-Dichloropropane	77	4.168	4.168	0.0	65	93599	1.91	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 Chlorobromomethane	128	4.358	4.358	0.0	86	52810	2.07	
44 Tetrahydrofuran	42	4.405	4.405	0.0	44	23614	2.08	
45 Chloroform	83	4.417	4.417	0.0	70	167582	1.99	
46 1,1,1-Trichloroethane	97	4.594	4.594	0.0	86	128183	1.97	
47 Cyclohexane	56	4.654	4.642	0.012	87	137762	1.85	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	96	131826	1.93	
49 Carbon tetrachloride	117	4.736	4.736	0.0	75	104693	1.88	
52 Benzene	78	4.890	4.890	0.0	94	411347	1.99	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	46	125671	2.02	
56 Trichloroethene	130	5.435	5.435	-0.001	93	108540	2.03	
58 Methylcyclohexane	83	5.612	5.612	0.0	89	131495	1.77	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	82	96331	1.97	
62 1,4-Dioxane	88	5.719	5.719	-0.001	83	47654	105.9	
61 Dibromomethane	93	5.719	5.719	-0.001	86	51310	1.88	
63 Dichlorobromomethane	83	5.837	5.837	0.0	88	120147	1.94	
65 2-Chloroethyl vinyl ether	63	6.085	6.085	0.0	90	120924	4.11	
66 cis-1,3-Dichloropropene	75	6.227	6.227	0.0	86	160233	2.00	
67 4-Methyl-2-pentanone (MIBK)	43	6.346	6.346	0.0	93	148233	4.18	
68 Toluene	91	6.535	6.535	0.0	97	444142	1.95	
69 trans-1,3-Dichloropropene	75	6.712	6.713	-0.001	88	133575	1.88	
70 Ethyl methacrylate	69	6.783	6.784	-0.001	86	121810	1.97	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	87	85047	2.06	
72 Tetrachloroethene	164	7.032	7.032	0.0	76	87110	2.04	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	85	152135	2.03	
74 2-Hexanone	43	7.091	7.091	0.0	93	94703	4.08	
76 Chlorodibromomethane	129	7.245	7.245	0.0	83	88791	1.98	
77 Ethylene Dibromide	107	7.351	7.352	-0.001	91	84787	2.02	
79 Chlorobenzene	112	7.813	7.813	0.0	94	271190	1.96	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	83	88805	1.95	
81 Ethylbenzene	106	7.908	7.908	0.0	98	145476	1.92	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	364535	3.92	
83 o-Xylene	106	8.393	8.393	0.0	91	177312	2.03	
84 Styrene	104	8.405	8.405	0.0	89	284158	1.93	
85 Bromoform	173	8.582	8.582	0.0	98	44687	1.99	
86 Isopropylbenzene	105	8.748	8.748	0.0	94	416872	1.98	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	83	65969	2.06	
89 Bromobenzene	156	9.044	9.044	0.0	90	94324	2.03	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	74	23959	2.12	
91 trans-1,4-Dichloro-2-butene	53	9.067	9.079	-0.012	50	10164	1.84	
92 N-Propylbenzene	120	9.150	9.150	0.0	98	100194	2.01	
93 2-Chlorotoluene	126	9.233	9.233	0.0	96	83391	2.02	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	92	264505	2.01	
95 4-Chlorotoluene	126	9.339	9.339	0.0	98	80730	2.01	
96 tert-Butylbenzene	119	9.635	9.635	0.0	78	229402	2.03	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	64	238726	2.00	
98 sec-Butylbenzene	105	9.860	9.860	0.0	91	281185	2.01	
99 1,3-Dichlorobenzene	146	9.967	9.967	-0.001	94	124045	1.97	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	91	207958	1.95	
101 1,4-Dichlorobenzene	146	10.049	10.049	0.0	85	131165	2.03	
103 n-Butylbenzene	91	10.404	10.404	0.0	96	164235	1.93	
104 1,2-Dichlorobenzene	146	10.416	10.416	0.0	96	120255	1.99	
105 1,2-Dibromo-3-Chloropropane	157	11.185	11.185	0.0	42	11366	1.92	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,3,5-Trichlorobenzene	180	11.410	11.410	0.0	93	83054	2.00	
107 1,2,4-Trichlorobenzene	180	12.025	12.026	-0.001	86	76596	2.05	
108 Hexachlorobutadiene	225	12.203	12.203	0.0	82	32718	2.04	
109 Naphthalene	128	12.274	12.274	0.0	95	201100	2.07	
110 1,2,3-Trichlorobenzene	180	12.522	12.523	0.0	91	69177	2.15	
S 138 Trihalomethanes, Total	1				0		7.90	
S 112 1,2-Dichloroethene, Total	96				0		3.95	
S 113 1,3-Dichloropropene, Total	75				0		3.88	
S 114 Xylenes, Total	106				0		5.94	

Report Date: 20-Jun-2012 09:22:41

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5156.D

Injection Date: 19-Jun-2012 15:26:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

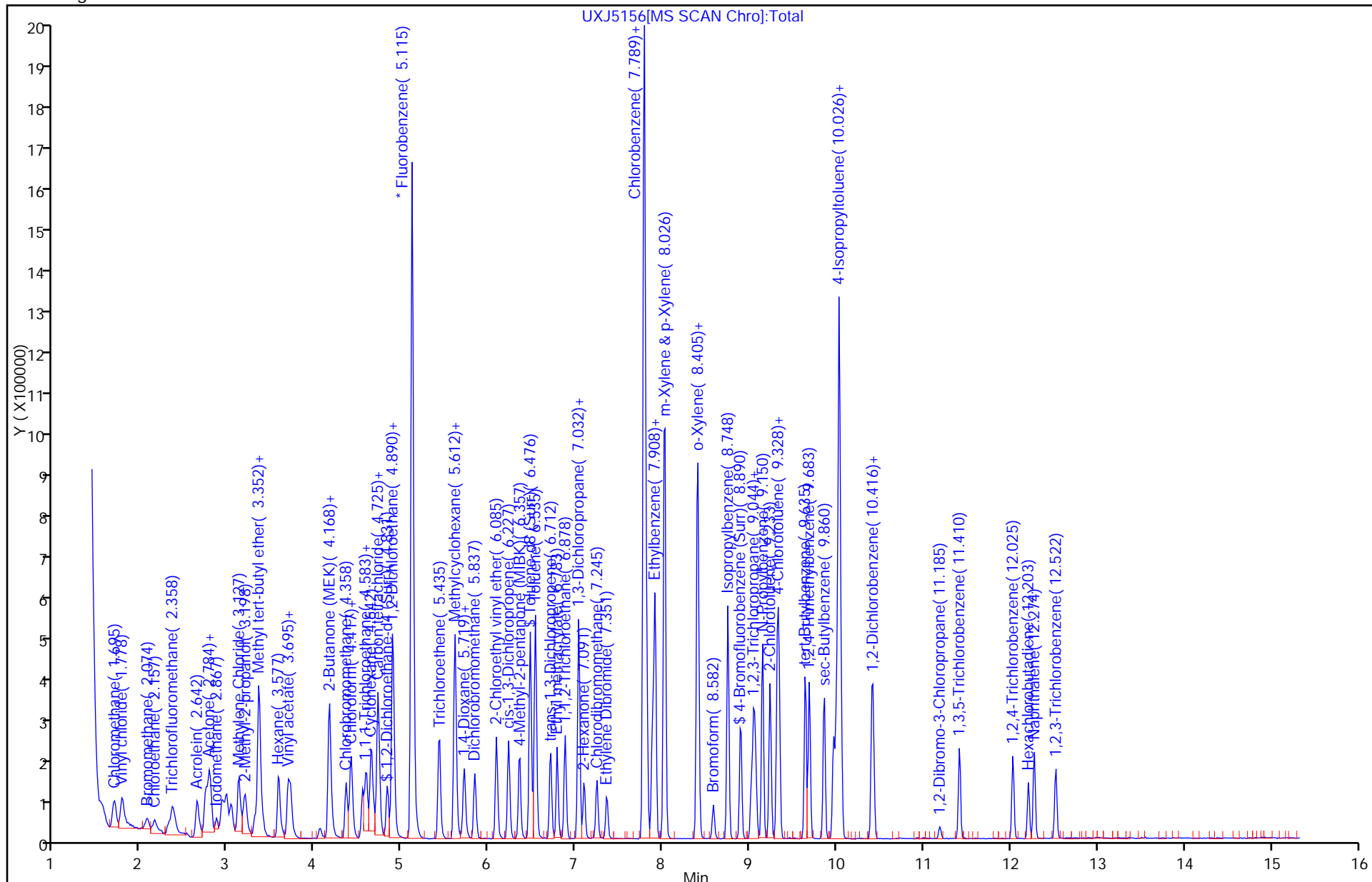
Lims Sample ID: 8

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5157.D
 Lims ID: STD8260 L1 Client ID:
 Inject. Date: 19-Jun-2012 15:49:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: 240-0010834-009
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 8
 Lims Batch ID: 47806 Lims Sample ID: 9
 Sublist: chrom-8260_11*sub11
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:41 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1754269	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	82	1279331	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	95	399954	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	97	43128	1.01	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	88	59113	1.10	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	90	195549	1.03	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	85	60209	1.08	
8 Dichlorodifluoromethane	85	1.554	1.553	0.001	73	36953	0.9604	
9 Chloromethane	50	1.684	1.684	0.0	86	69759	1.08	
10 Vinyl chloride	62	1.778	1.778	0.0	79	59543	0.9691	
11 Bromomethane	94	2.074	2.062	0.012	74	15905	0.8190	
12 Chloroethane	64	2.157	2.157	0.0	51	19536	0.9196	
14 Trichlorofluoromethane	101	2.358	2.358	0.0	73	51403	0.9581	
16 Acrolein	56	2.642	2.642	0.0	88	59619	9.18	
19 1,1-Dichloroethene	96	2.749	2.737	0.012	84	43569	1.01	
17 Acetone	43	2.772	2.760	0.012	94	35694	1.62	
18 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.796	2.796	0.0	74	27734	0.9273	
21 Iodomethane	142	2.867	2.867	0.0	91	59578	0.99	M
23 Carbon disulfide	76	2.962	2.938	0.024	95	147799	1.02	
24 Acetonitrile	41	2.985	2.985	0.0	93	47421	10.8	
25 Methyl acetate	43	3.033	3.033	0.001	86	66757	2.23	
26 Methylene Chloride	84	3.127	3.127	0.0	84	86957	1.06	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	96	77082	22.8	
28 Acrylonitrile	53	3.317	3.317	0.001	88	30583	1.98	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	88	144610	1.04	
29 trans-1,2-Dichloroethene	96	3.364	3.352	0.012	62	53200	1.07	
31 Hexane	86	3.589	3.577	0.012	84	10184	0.9071	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	84	87259	1.05	
33 Vinyl acetate	86	3.719	3.719	0.0	96	9049	0.9115	
38 2-Butanone (MEK)	43	4.169	4.157	0.012	56	37028	2.18	
40 cis-1,2-Dichloroethene	96	4.169	4.168	0.001	78	56234	1.03	
39 2,2-Dichloropropane	77	4.169	4.168	0.001	61	51299	1.04	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 Chlorobromomethane	128	4.358	4.358	0.0	82	26327	1.03	
44 Tetrahydrofuran	42	4.405	4.405	0.0	38	12630	1.11	
45 Chloroform	83	4.417	4.417	0.0	67	89611	1.06	
46 1,1,1-Trichloroethane	97	4.583	4.594	-0.011	87	65488	1.00	
47 Cyclohexane	56	4.654	4.642	0.012	79	74828	1.00	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	89	72510	1.06	
49 Carbon tetrachloride	117	4.737	4.736	0.001	67	54915	0.9851	
52 Benzene	78	4.890	4.890	0.0	95	216153	1.04	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	47	63777	1.02	
56 Trichloroethene	130	5.435	5.435	0.0	89	57129	1.07	
58 Methylcyclohexane	83	5.612	5.612	0.0	86	73522	0.9864	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	82	52827	1.08	
62 1,4-Dioxane	88	5.719	5.719	0.0	66	24163	53.5	
61 Dibromomethane	93	5.707	5.719	-0.012	81	29415	1.07	
63 Dichlorobromomethane	83	5.837	5.837	0.0	91	64046	1.03	
65 2-Chloroethyl vinyl ether	63	6.086	6.085	0.001	86	54832	1.86	
66 cis-1,3-Dichloropropene	75	6.228	6.227	0.001	81	79845	0.99	
67 4-Methyl-2-pentanone (MIBK)	43	6.358	6.346	0.012	89	73599	2.07	
68 Toluene	91	6.535	6.535	0.0	95	236221	1.03	
69 trans-1,3-Dichloropropene	75	6.713	6.713	0.0	87	70807	0.99	
70 Ethyl methacrylate	69	6.784	6.784	0.0	86	60175	0.9696	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	90	40723	0.9833	
72 Tetrachloroethene	164	7.032	7.032	0.0	73	44443	1.03	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	86	77822	1.03	
74 2-Hexanone	43	7.091	7.091	0.0	88	47652	2.04	
76 Chlorodibromomethane	129	7.245	7.245	0.0	78	44184	0.9775	
77 Ethylene Dibromide	107	7.363	7.352	0.011	87	41772	0.9881	
79 Chlorobenzene	112	7.813	7.813	0.0	93	145235	1.05	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	88	46187	1.01	
81 Ethylbenzene	106	7.908	7.908	0.0	97	82788	1.09	
82 m-Xylene & p-Xylene	106	8.014	8.026	-0.012	97	192254	2.05	
83 o-Xylene	106	8.393	8.393	0.0	92	91954	1.04	
84 Styrene	104	8.405	8.405	0.0	90	152642	1.03	
85 Bromoform	173	8.582	8.582	0.0	87	21694	0.9626	
86 Isopropylbenzene	105	8.748	8.748	0.0	94	216830	1.03	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	74	33023	1.03	
89 Bromobenzene	156	9.044	9.044	0.0	90	49657	1.07	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	64	12739	1.13	
91 trans-1,4-Dichloro-2-butene	53	9.067	9.079	-0.012	50	4910	0.8902	
92 N-Propylbenzene	120	9.150	9.150	0.0	96	51884	1.04	
93 2-Chlorotoluene	126	9.233	9.233	0.0	94	46078	1.12	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	92	135221	1.03	
95 4-Chlorotoluene	126	9.340	9.339	0.001	95	44533	1.11	
96 tert-Butylbenzene	119	9.635	9.635	0.0	86	122735	1.09	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	70	126398	1.06	
98 sec-Butylbenzene	105	9.860	9.860	0.0	87	148212	1.06	
99 1,3-Dichlorobenzene	146	9.967	9.967	0.0	89	68083	1.08	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	91	114071	1.07	
101 1,4-Dichlorobenzene	146	10.050	10.049	0.001	80	67779	1.05	
103 n-Butylbenzene	91	10.405	10.404	0.001	94	85355	1.01	
104 1,2-Dichlorobenzene	146	10.428	10.416	0.012	91	62339	1.03	
105 1,2-Dibromo-3-Chloropropane	157	11.186	11.185	0.001	22	5942	1.00	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,3,5-Trichlorobenzene	180	11.410	11.410	0.0	87	45402	1.10	
107 1,2,4-Trichlorobenzene	180	12.026	12.026	0.0	84	39138	1.05	
108 Hexachlorobutadiene	225	12.203	12.203	0.0	68	17453	1.09	
109 Naphthalene	128	12.274	12.274	0.0	88	108284	1.12	
110 1,2,3-Trichlorobenzene	180	12.523	12.523	0.001	79	35167	1.09	
S 138 Trihalomethanes, Total	1				0		4.03	
S 112 1,2-Dichloroethene, Total	96				0		2.09	
S 113 1,3-Dichloropropene, Total	75				0		1.98	
S 114 Xylenes, Total	106				0		3.10	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 20-Jun-2012 09:22:41

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5157.D

Injection Date: 19-Jun-2012 15:49:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

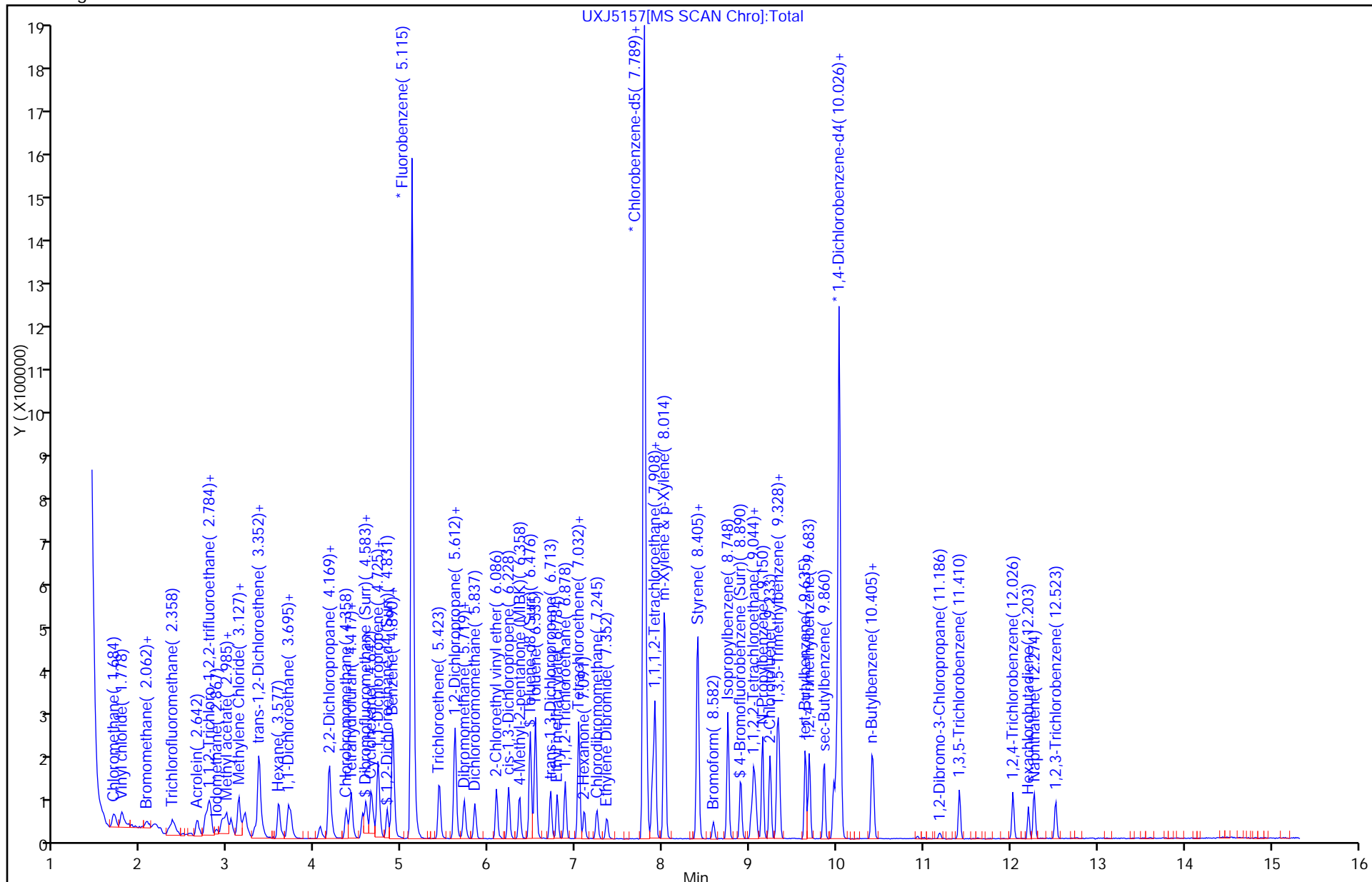
Lims Sample ID: 9

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:

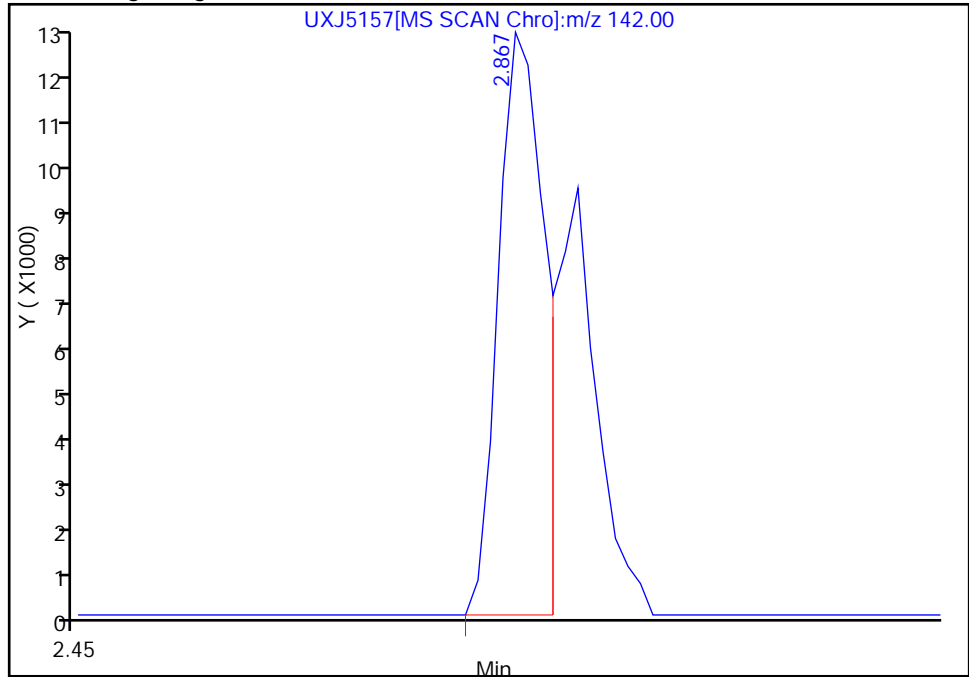


Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5157.D
Injection Date: 19-Jun-2012 15:49:30 Limit Group: MSV 8260B ICAL
Client ID: Instrument ID: A3UX11
Lims Batch ID: 47806 Lims Sample ID: 9
Operator ID: 43582
Column Type: DB-624 Column Dia: 0.18 mm

21 Iodomethane, Signal: 1, m/z: 142.0 Type: quant, RT: 2.87

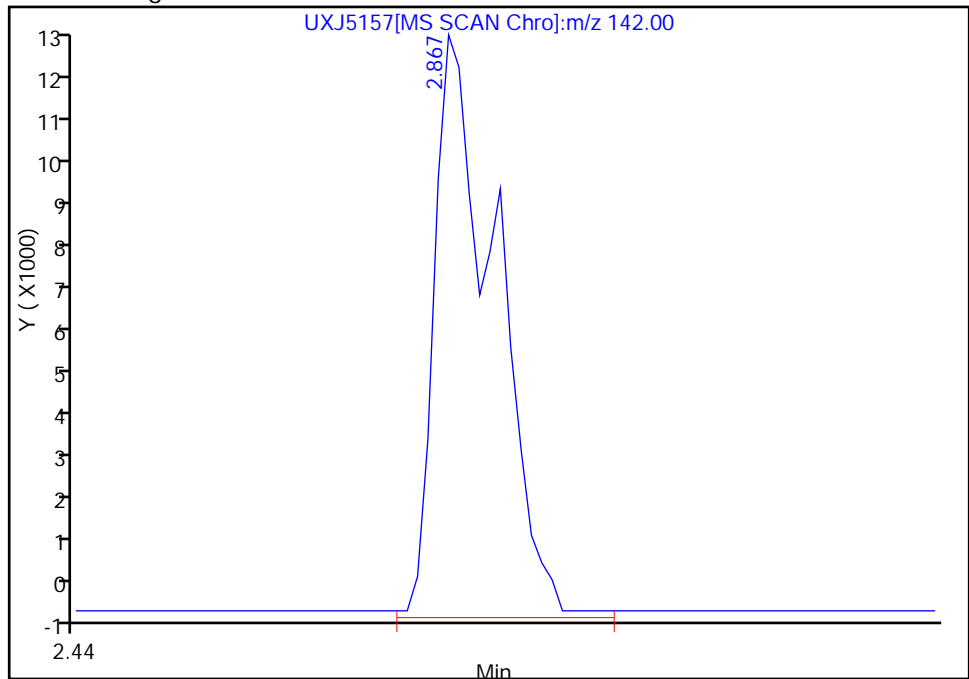
RT: 2.87
Response: 37073
Amount: 0.872991

Processing Integration Results



RT: 2.87
Response: 59578
Amount: 0.994810

Manual Integration Results



Reviewer: evansle, 20-Jun-2012 08:34:16

Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 16:12 Calibration End Date: 06/19/2012 18:05 Calibration ID: 9356

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-47806/15	UXJ5163.D
Level 2	STD2 240-47806/14	UXJ5162.D
Level 3	STD3 240-47806/13	UXJ5161.D
Level 4	STD4 240-47806/12	UXJ5160.D
Level 5	STD5 240-47806/11	UXJ5159.D
Level 6	STD6 240-47806/10	UXJ5158.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorofluoromethane	0.4341 0.4439	0.3941	0.4300	0.4461	0.4361	Ave		0.4307				4.4		15.0			
Ethyl ether	0.2378 0.2309	0.2160	0.2258	0.2366	0.2286	Ave		0.2293				3.5		15.0			
3-Chloro-1-propene	0.1741 0.1569	0.1382	0.1536	0.1580	0.1545	Ave		0.1559				7.4		15.0			
Isopropyl ether	0.2821 0.2755	0.2580	0.2761	0.2778	0.2645	Ave		0.2723				3.3		15.0			
2-Chloro-1,3-butadiene	0.4405 0.4192	0.4037	0.4229	0.4258	0.4248	Ave		0.4228				2.8		15.0			
Tert-butyl ethyl ether	0.9129 0.8715	0.8230	0.8835	0.8880	0.8464	Ave		0.8709				3.7		15.0			
Ethyl acetate	0.2479 0.2118	0.2223	0.2195	0.2185	0.2141	Ave		0.2224				5.9		15.0			
Propionitrile	0.0366 0.0330	0.0316	0.0320	0.0343	0.0342	Ave		0.0336				5.4		15.0			
Methacrylonitrile	0.1672 0.1442	0.1452	0.1540	0.1524	0.1468	Ave		0.1516				5.7		15.0			
Isobutyl alcohol	0.0106 0.0089	0.0104	0.0102	0.0100	0.0096	Ave		0.0099				6.1		15.0			
Tert-amyl methyl ether	0.8891 0.8369	0.7654	0.8445	0.8497	0.8143	Ave		0.8333				4.9		15.0			
n-Heptane	0.0533 0.0551	0.0772	0.0539	0.0543	0.0741	Ave		0.0613				18.0	*	15.0			
n-Butanol	0.0092 0.0086	0.0092	0.0095	0.0096	0.0090	Ave		0.0092				4.0		15.0			
Methyl methacrylate	0.2440 0.2102	0.2148	0.2235	0.2231	0.2121	Ave		0.2213				5.6		15.0			
2-Nitropropane	0.0629 0.0605	0.0576	0.0614	0.0618	0.0613	Ave		0.0609				2.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 16:12 Calibration End Date: 06/19/2012 18:05 Calibration ID: 9356

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.0557 0.0554	0.0496	0.0637	0.0519	0.0525	Ave		0.0548				9.0		15.0			
1,2,3-Trimethylbenzene	2.9059 2.9272	2.6208	2.8103	2.7997	2.7150	Ave		2.7965				4.1		15.0			
2-Methylnaphthalene	1.0483 0.9270	0.9629	1.0012	0.9726	0.9623	Ave		0.9791				4.2		15.0			
n-Butyl acetate	0.3624 0.3505	0.3413	0.3505	0.3514	0.3507	Ave		0.3511				1.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 16:12 Calibration End Date: 06/19/2012 18:05 Calibration ID: 9356

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-47806/15	UXJ5163.D
Level 2	STD2 240-47806/14	UXJ5162.D
Level 3	STD3 240-47806/13	UXJ5161.D
Level 4	STD4 240-47806/12	UXJ5160.D
Level 5	STD5 240-47806/11	UXJ5159.D
Level 6	STD6 240-47806/10	UXJ5158.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorofluoromethane	FB	Ave	75009 3022486	139139	376435	767224	1506391	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	41083 1572001	76277	197674	406847	789584	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	30079 1068287	48796	134409	271681	533500	1.00 40.0	2.00	5.00	10.0	20.0
Isopropyl ether	FB	Ave	243682 9377635	455497	1208314	2389059	4568899	5.00 200	10.0	25.0	50.0	100
2-Chloro-1,3-butadiene	FB	Ave	76111 2854040	142534	370201	732335	1467217	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	157746 5933352	290550	773345	1527185	2923493	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	85681 2884633	156938	384263	751722	1478865	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	12654 449120	22342	55972	118013	235928	2.00 80.0	4.00	10.0	20.0	40.0
Methacrylonitrile	FB	Ave	28893 982022	51255	134793	262024	507118	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	27269 901775	54102	131308	252092	491876	20.0 800	40.0	100	200	400
Tert-amyl methyl ether	FB	Ave	153622 5698100	270244	739244	1461412	2812549	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	9217 375121	27272	47157	93446	255895	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Ave	23703 869630	48182	122954	242686	459472	20.0 800	40.0	100	200	400
Methyl methacrylate	FB	Ave	42165 1431424	75837	195677	383727	732500	1.00 40.0	2.00	5.00	10.0	20.0
2-Nitropropane	FB	Ave	21730 823355	40682	107454	212458	423254	2.00 80.0	4.00	10.0	20.0	40.0
Cyclohexanone	DCB	Ave	22134 856829	40365	127404	207035	422078	10.0 400	20.0	50.0	100	200

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 47806

SDG No.: _____

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 16:12 Calibration End Date: 06/19/2012 18:05 Calibration ID: 9356

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,3-Trimethylbenzene	DCB	Ave	115539 4528565	213330	562078	1117866	2182960	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCB	Ave	83363 2868314	156765	400488	776693	1547385	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	FB	Ave	125255 4772709	240992	613552	1208819	2422623	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5158.D
 Lims ID: STD6 A9 L6 Client ID:
 Inject. Date: 19-Jun-2012 16:12:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: 240-0010834-010
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 9
 Lims Batch ID: 47806 Lims Sample ID: 10
 Sublist: chrom-8260_11*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:42 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1702057	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	81	1262788	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	92	386767	10.0	
13 Dichlorofluoromethane	67	2.299	2.299	0.0	82	3022486	41.2	
15 Ethyl ether	59	2.547	2.547	0.0	88	1572001	40.3	
22 3-Chloro-1-propene	76	3.033	3.033	-0.001	91	1068287	40.3	
34 Isopropyl ether	87	3.742	3.743	-0.001	86	9377635	202.3	
35 2-Chloro-1,3-butadiene	53	3.766	3.766	0.0	75	2854040	39.7	
37 Tert-butyl ethyl ether	59	4.038	4.038	0.0	97	5933352	40.0	
41 Ethyl acetate	43	4.204	4.204	0.0	99	2884633	76.2	
36 Propionitrile	54	4.204	4.204	0.0	97	449120	78.5	
42 Methacrylonitrile	41	4.334	4.334	0.0	91	982022	38.1	
50 Isobutyl alcohol	41	4.772	4.772	0.0	94	901775	718.0	
53 Tert-amyl methyl ether	73	4.973	4.973	0.0	98	5698100	40.2	
54 n-Heptane	100	5.103	5.103	0.0	90	375121	35.9	
55 n-Butanol	56	5.328	5.328	0.0	86	869630	748.7	
60 Methyl methacrylate	41	5.695	5.695	0.0	85	1431424	38.0	
64 2-Nitropropane	41	6.026	6.026	0.0	96	823355	79.4	
132 n-Butyl acetate	43	7.210	7.210	0.0	95	4772709	79.9	
87 Cyclohexanone	55	8.831	8.831	0.0	90	856829	404.4	
102 1,2,3-Trimethylbenzene	105	10.097	10.109	-0.012	99	4528565	41.9	
111 2-Methylnaphthalene	142	13.552	13.552	0.0	89	2868314	75.7	

Report Date: 20-Jun-2012 09:22:42

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5158.D

Injection Date: 19-Jun-2012 16:12:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

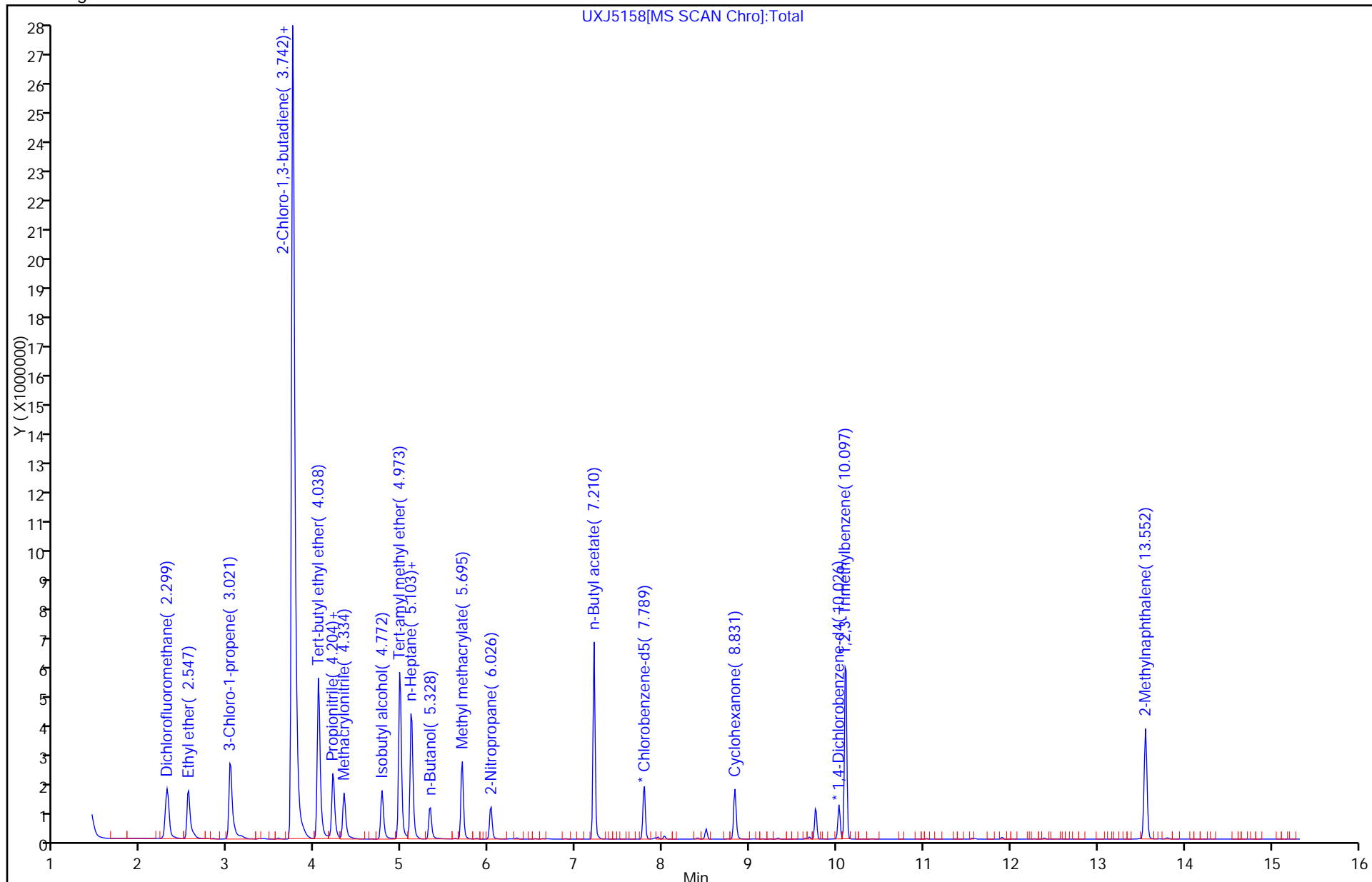
Lims Sample ID: 10

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5159.D
 Lims ID: STD5 A9 L5 Client ID:
 Inject. Date: 19-Jun-2012 16:35:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: 240-0010834-011
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 10
 Lims Batch ID: 47806 Lims Sample ID: 11
 Sublist: chrom-8260_11*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:42 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	98	1727066	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	82	1280994	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	94	402020	10.0	
13 Dichlorofluoromethane	67	2.299	2.299	0.0	83	1506391	20.2	
15 Ethyl ether	59	2.547	2.547	0.0	88	789584	19.9	
22 3-Chloro-1-propene	76	3.032	3.033	-0.001	91	533500	19.8	
34 Isopropyl ether	87	3.742	3.743	-0.001	94	4568899	97.1	
35 2-Chloro-1,3-butadiene	53	3.766	3.766	0.0	87	1467217	20.1	
37 Tert-butyl ethyl ether	59	4.038	4.038	0.0	95	2923493	19.4	
41 Ethyl acetate	43	4.204	4.204	0.0	99	1478865	38.5	
36 Propionitrile	54	4.204	4.204	0.0	98	235928	40.6	
42 Methacrylonitrile	41	4.334	4.334	0.0	91	507118	19.4	
50 Isobutyl alcohol	41	4.772	4.772	0.0	93	491876	386.0	
53 Tert-amyl methyl ether	73	4.973	4.973	0.0	98	2812549	19.5	
54 n-Heptane	100	5.103	5.103	0.0	89	255895	24.2	
55 n-Butanol	56	5.328	5.328	0.0	86	459472	390.0	
60 Methyl methacrylate	41	5.695	5.695	0.0	87	732500	19.2	
64 2-Nitropropane	41	6.026	6.026	0.0	97	423254	40.2	
132 n-Butyl acetate	43	7.209	7.210	-0.001	95	2422623	39.9	
87 Cyclohexanone	55	8.831	8.831	0.0	90	422078	191.7	
102 1,2,3-Trimethylbenzene	105	10.097	10.109	-0.012	98	2182960	19.4	
111 2-Methylnaphthalene	142	13.552	13.552	0.0	89	1547385	39.3	

Report Date: 20-Jun-2012 09:22:42

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5159.D

Injection Date: 19-Jun-2012 16:35:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

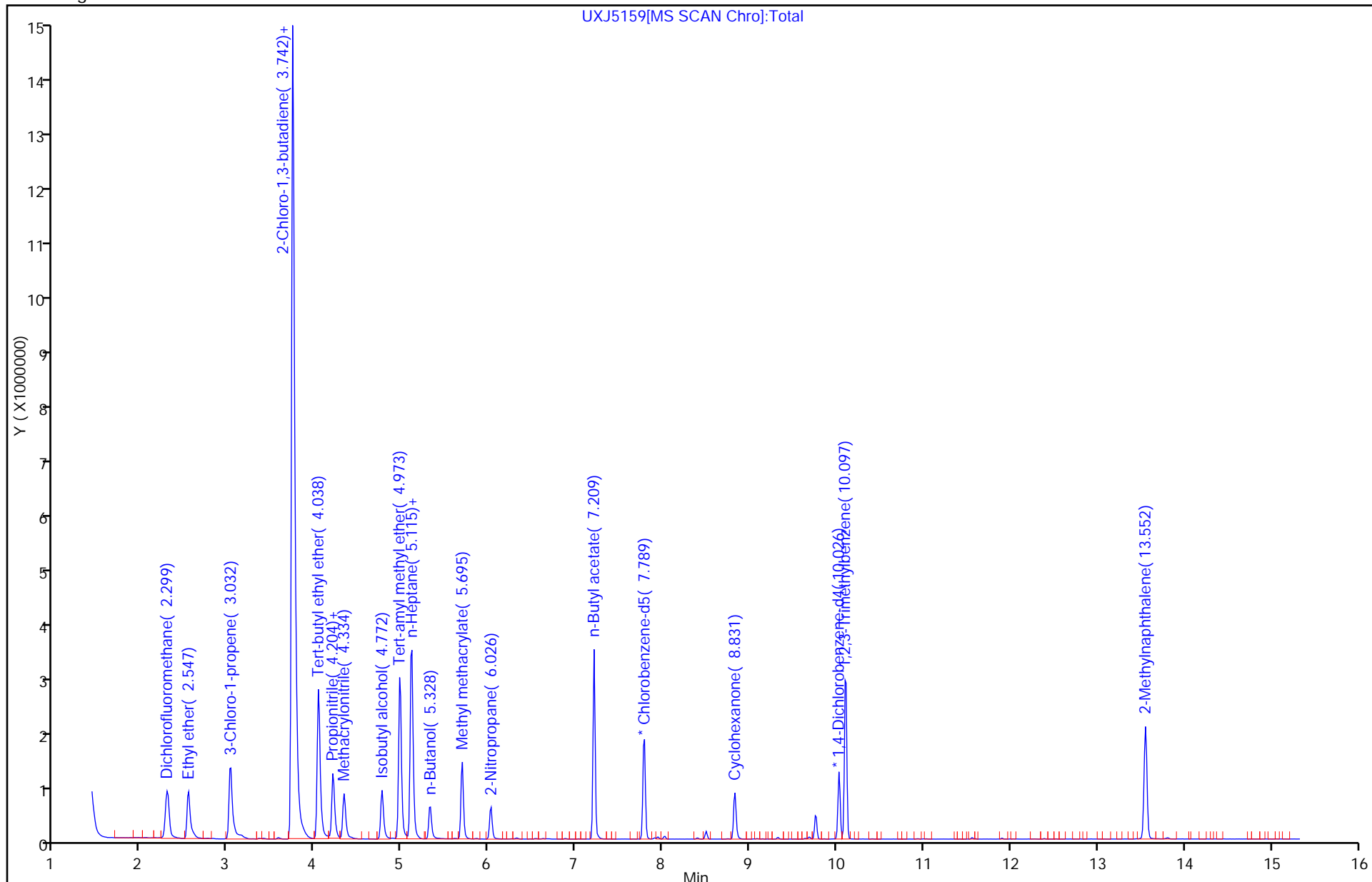
Lims Sample ID: 11

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5160.D
 Lims ID: STD4 A9 L4 Client ID:
 Inject. Date: 19-Jun-2012 16:57:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: 240-0010834-012
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 11
 Lims Batch ID: 47806 Lims Sample ID: 12
 Sublist: chrom-8260_11*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:43 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1719843	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	83	1260787	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	94	399276	10.0	
13 Dichlorofluoromethane	67	2.299	2.299	0.0	82	767224	10.4	
15 Ethyl ether	59	2.547	2.547	0.0	89	406847	10.3	
22 3-Chloro-1-propene	76	3.033	3.033	0.0	90	271681	10.1	
34 Isopropyl ether	87	3.743	3.743	0.0	94	2389059	51.0	
35 2-Chloro-1,3-butadiene	53	3.766	3.766	0.0	90	732335	10.1	
37 Tert-butyl ethyl ether	59	4.038	4.038	0.0	97	1527185	10.2	
41 Ethyl acetate	43	4.204	4.204	0.0	99	751722	19.7	
36 Propionitrile	54	4.204	4.204	0.0	96	118013	20.4	
42 Methacrylonitrile	41	4.334	4.334	0.0	91	262024	10.0	
50 Isobutyl alcohol	41	4.772	4.772	0.0	93	252092	201.0	
53 Tert-amyl methyl ether	73	4.973	4.973	0.0	98	1461412	10.2	
54 n-Heptane	100	5.103	5.103	0.0	90	93446	8.86	
55 n-Butanol	56	5.328	5.328	0.0	85	242686	209.3	
60 Methyl methacrylate	41	5.695	5.695	0.0	87	383727	10.1	
64 2-Nitropropane	41	6.026	6.026	0.0	98	212458	20.3	
132 n-Butyl acetate	43	7.210	7.210	0.0	94	1208819	20.0	
87 Cyclohexanone	55	8.831	8.831	0.0	90	207035	94.7	
102 1,2,3-Trimethylbenzene	105	10.109	10.109	0.0	98	1117866	10.0	
111 2-Methylnaphthalene	142	13.552	13.552	0.0	88	776693	19.9	

Report Date: 20-Jun-2012 09:22:43

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5160.D

Injection Date: 19-Jun-2012 16:57:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

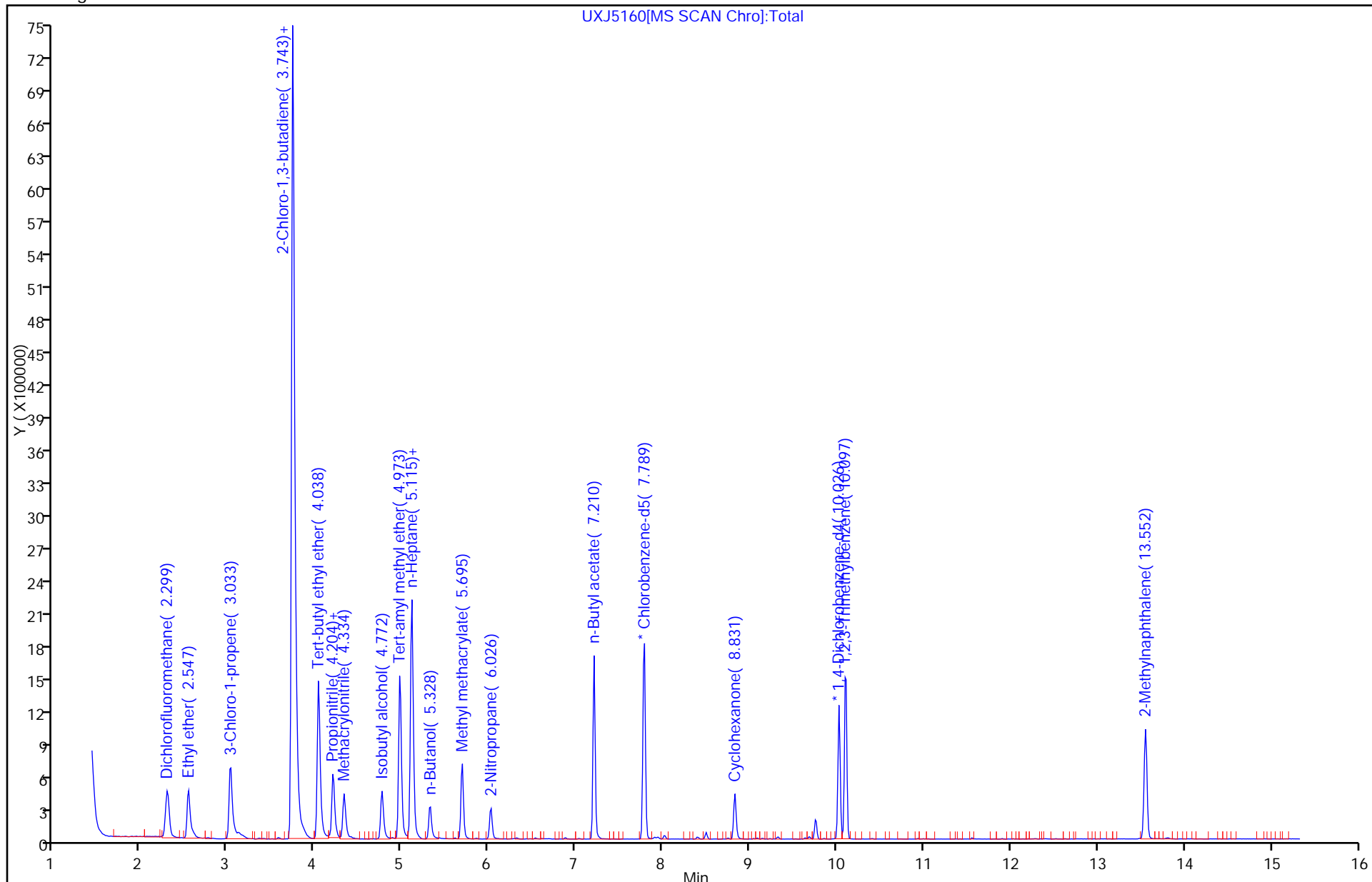
Lims Sample ID: 12

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5161.D
 Lims ID: STD3 A9 L3 Client ID:
 Inject. Date: 19-Jun-2012 17:20:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: 240-0010834-013
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 12
 Lims Batch ID: 47806 Lims Sample ID: 13
 Sublist: chrom-8260_11*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:43 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1750657	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	84	1292157	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	94	400008	10.0	
13 Dichlorofluoromethane	67	2.299	2.299	0.0	82	376435	4.99	
15 Ethyl ether	59	2.547	2.547	0.0	89	197674	4.92	
22 3-Chloro-1-propene	76	3.032	3.033	-0.001	89	134409	4.93	
34 Isopropyl ether	87	3.742	3.743	-0.001	94	1208314	25.3	
35 2-Chloro-1,3-butadiene	53	3.766	3.766	0.0	90	370201	5.00	
37 Tert-butyl ethyl ether	59	4.038	4.038	0.0	94	773345	5.07	
41 Ethyl acetate	43	4.204	4.204	0.0	98	384263	9.87	
36 Propionitrile	54	4.204	4.204	0.0	38	55972	9.51	
42 Methacrylonitrile	41	4.334	4.334	0.0	90	134793	5.08	
50 Isobutyl alcohol	41	4.772	4.772	0.0	95	131308	102.2	
53 Tert-amyl methyl ether	73	4.973	4.973	0.0	98	739244	5.07	
54 n-Heptane	100	5.103	5.103	0.0	89	47157	4.39	
55 n-Butanol	56	5.328	5.328	0.0	84	122954	103.5	
60 Methyl methacrylate	41	5.695	5.695	0.0	86	195677	5.05	
64 2-Nitropropane	41	6.026	6.026	0.0	98	107454	10.1	
132 n-Butyl acetate	43	7.209	7.210	-0.001	95	613552	9.98	
87 Cyclohexanone	55	8.831	8.831	-0.001	89	127404	58.1	
102 1,2,3-Trimethylbenzene	105	10.108	10.109	-0.001	98	562078	5.02	
111 2-Methylnaphthalene	142	13.552	13.552	0.0	89	400488	10.2	

Report Date: 20-Jun-2012 09:22:43

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5161.D

Injection Date: 19-Jun-2012 17:20:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

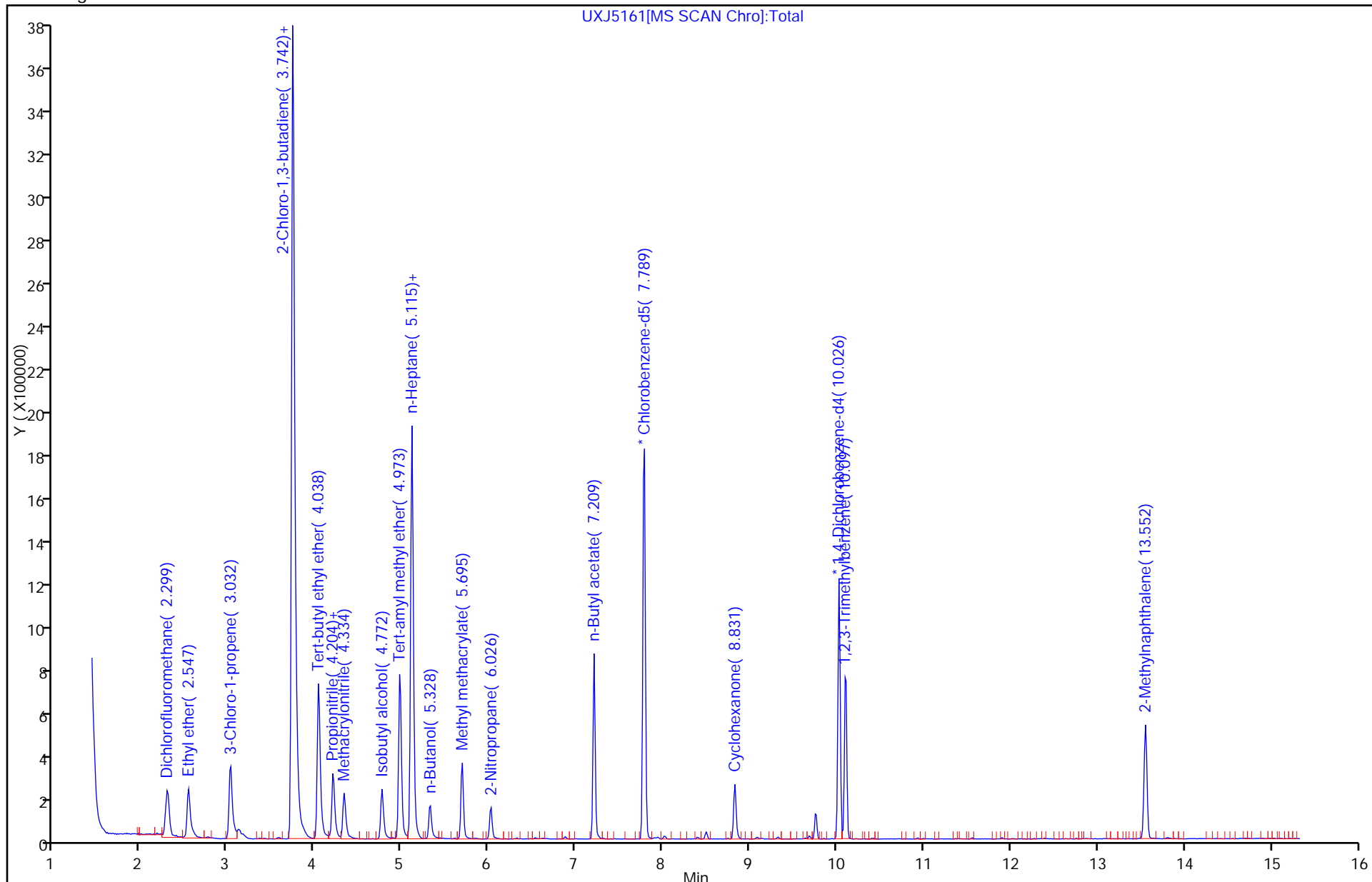
Lims Sample ID: 13

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5162.D
 Lims ID: STD2 A9 L2 Client ID:
 Inject. Date: 19-Jun-2012 17:43:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: 240-0010834-014
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 13
 Lims Batch ID: 47806 Lims Sample ID: 14
 Sublist: chrom-8260_11*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:44 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1765272	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	85	1302668	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	93	406993	10.0	
13 Dichlorofluoromethane	67	2.311	2.299	0.012	96	139139	1.83	
15 Ethyl ether	59	2.547	2.547	0.0	85	76277	1.88	
22 3-Chloro-1-propene	76	3.033	3.033	0.0	87	48796	1.77	
34 Isopropyl ether	87	3.743	3.743	0.0	93	455497	9.47	
35 2-Chloro-1,3-butadiene	53	3.766	3.766	0.0	74	142534	1.91	
37 Tert-butyl ethyl ether	59	4.038	4.038	0.0	96	290550	1.89	
41 Ethyl acetate	43	4.204	4.204	0.0	96	156938	4.00	
36 Propionitrile	54	4.204	4.204	0.0	15	22342	3.77	
42 Methacrylonitrile	41	4.334	4.334	0.0	88	51255	1.91	
50 Isobutyl alcohol	41	4.772	4.772	0.0	91	54102	41.8	
53 Tert-amyl methyl ether	73	4.973	4.973	0.0	97	270244	1.84	
54 n-Heptane	100	5.103	5.103	0.0	89	27272	2.52	
55 n-Butanol	56	5.328	5.328	0.0	84	48182	40.2	
60 Methyl methacrylate	41	5.695	5.695	0.0	87	75837	1.94	
64 2-Nitropropane	41	6.026	6.026	0.0	97	40682	3.78	
132 n-Butyl acetate	43	7.210	7.210	0.0	96	240992	3.89	
87 Cyclohexanone	55	8.831	8.831	0.0	83	40365	18.1	
102 1,2,3-Trimethylbenzene	105	10.109	10.109	0.0	97	213330	1.87	
111 2-Methylnaphthalene	142	13.552	13.552	0.0	88	156765	3.93	

Report Date: 20-Jun-2012 09:22:44

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5162.D

Injection Date: 19-Jun-2012 17:43:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

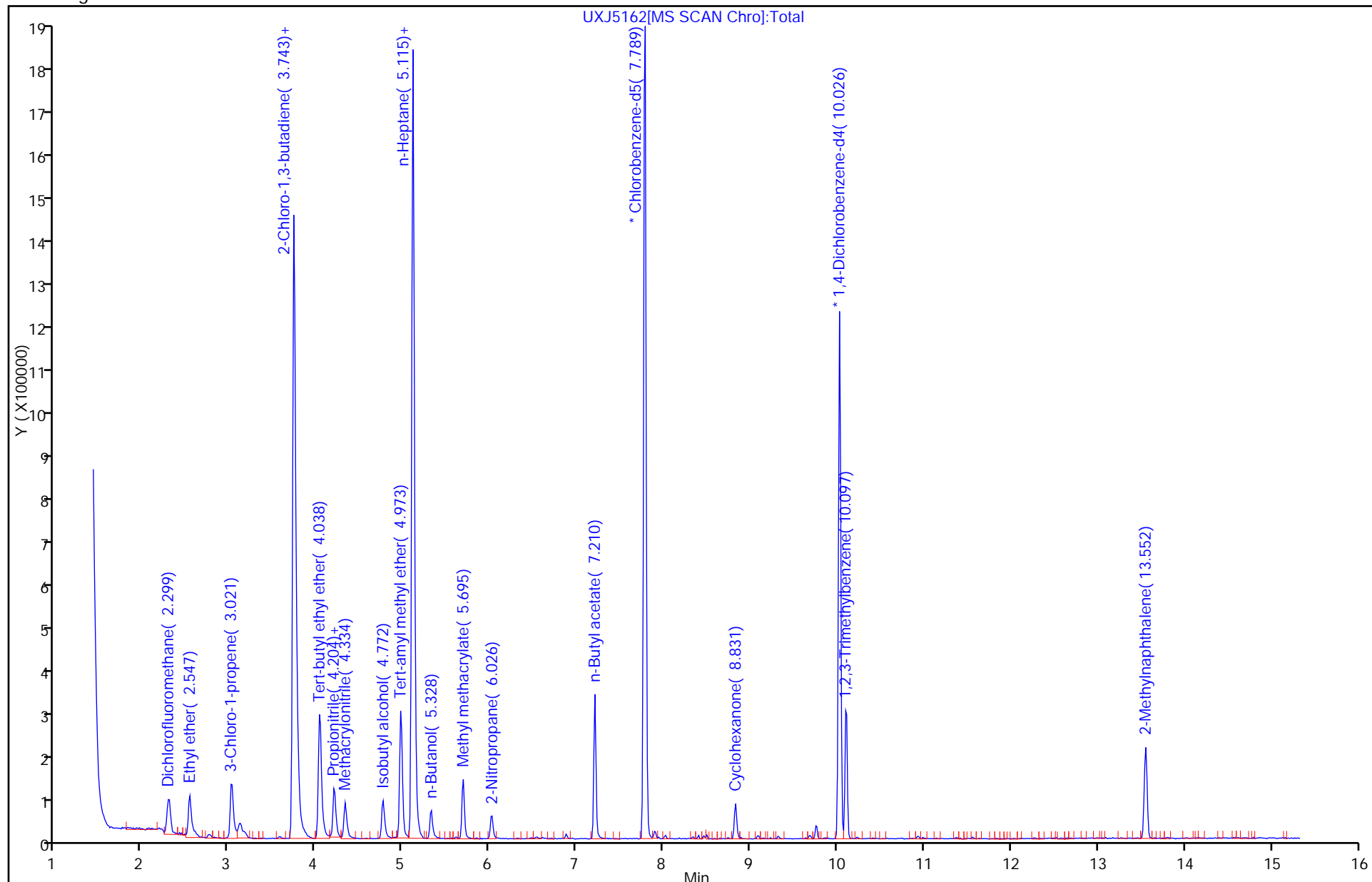
Lims Sample ID: 14

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5163.D
 Lims ID: STD1 A9 L1 Client ID:
 Inject. Date: 19-Jun-2012 18:05:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: 240-0010834-015
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 14
 Lims Batch ID: 47806 Lims Sample ID: 15
 Sublist: chrom-8260_11*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:22:44 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1727910	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	83	1284956	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	94	397606	10.0	
13 Dichlorofluoromethane	67	2.299	2.299	0.0	91	75009	1.01	
15 Ethyl ether	59	2.547	2.547	0.0	86	41083	1.04	
22 3-Chloro-1-propene	76	3.033	3.033	0.0	78	30079	1.12	
34 Isopropyl ether	87	3.743	3.743	0.0	92	243682	5.18	
35 2-Chloro-1,3-butadiene	53	3.766	3.766	0.0	85	76111	1.04	
37 Tert-butyl ethyl ether	59	4.038	4.038	0.0	95	157746	1.05	
41 Ethyl acetate	43	4.204	4.204	0.0	94	85681	2.23	
36 Propionitrile	54	4.216	4.204	0.012	7	12654	2.18	
42 Methacrylonitrile	41	4.334	4.334	0.0	76	28893	1.10	
50 Isobutyl alcohol	41	4.772	4.772	0.0	74	27269	21.3	
53 Tert-amyl methyl ether	73	4.973	4.973	0.0	99	153622	1.07	
54 n-Heptane	100	5.115	5.103	0.012	35	9217	0.8698	
55 n-Butanol	56	5.328	5.328	0.0	85	23703	20.1	
60 Methyl methacrylate	41	5.695	5.695	0.0	79	42165	1.10	
64 2-Nitropropane	41	6.026	6.026	0.0	84	21730	2.07	
132 n-Butyl acetate	43	7.210	7.210	0.0	95	125255	2.06	
87 Cyclohexanone	55	8.831	8.831	0.0	76	22134	10.2	
102 1,2,3-Trimethylbenzene	105	10.109	10.109	0.0	96	115539	1.04	
111 2-Methylnaphthalene	142	13.552	13.552	0.0	81	83363	2.14	

Report Date: 20-Jun-2012 09:22:44

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5163.D

Injection Date: 19-Jun-2012 18:05:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

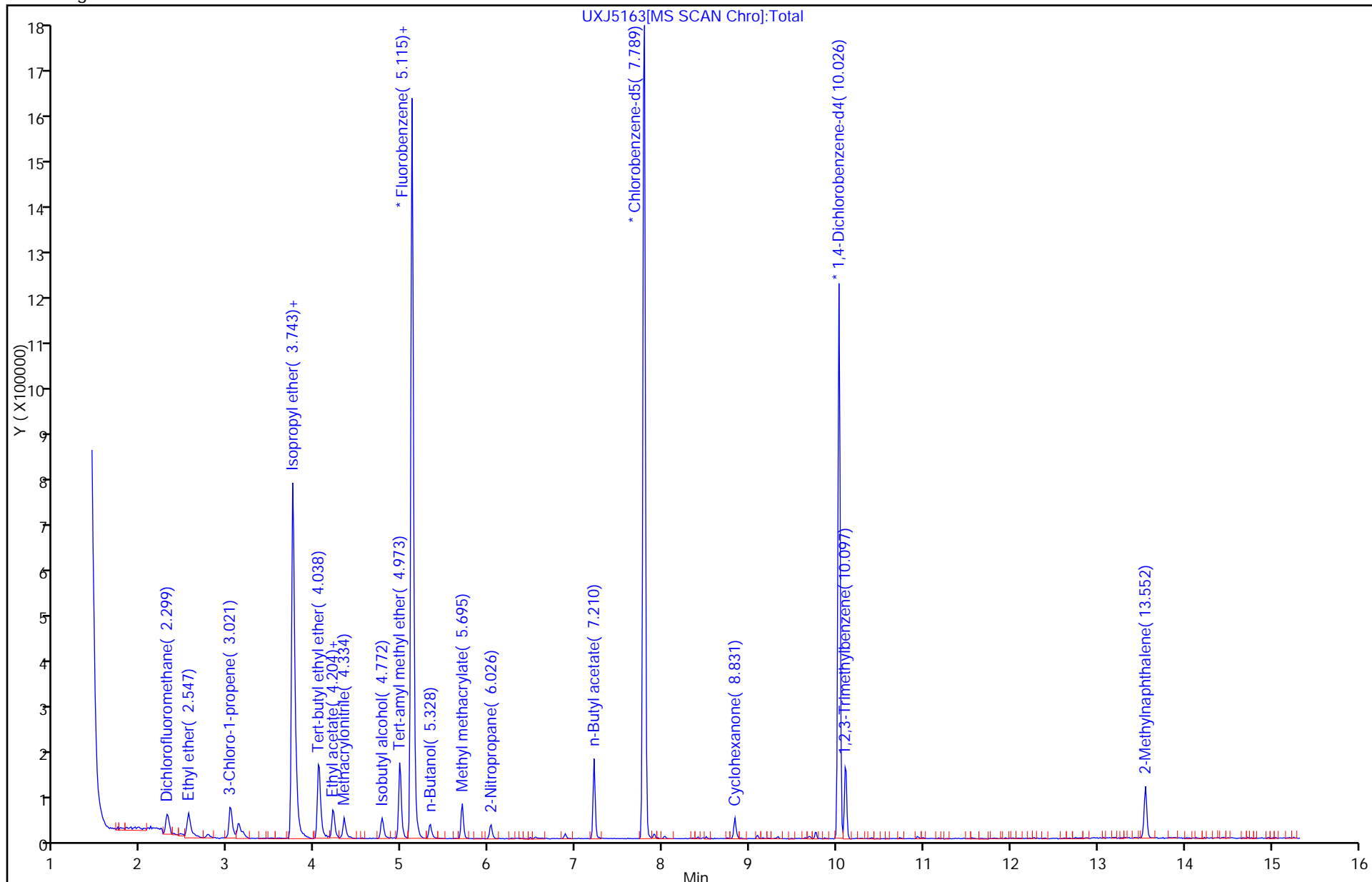
Lims Sample ID: 15

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-42081/7	UXC3081.D
Level 2	STD8260 240-42081/6	UXC3080.D
Level 3	STD8260 240-42081/5	UXC3079.D
Level 4	STD8260 240-42081/4	UXC3078.D
Level 5	STD8260 240-42081/3	UXC3077.D
Level 6	STD8260 240-42081/2	UXC3076.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2437 0.3586	0.2981	0.3071	0.3553	0.3059	Ave		0.3114				14.0		15.0			
Chloromethane	0.3874 0.3501	0.4080	0.4029	0.3817	0.3559	Ave		0.3810			0.1000	6.3		15.0			
Vinyl chloride	0.3486 0.3582	0.3563	0.3660	0.3713	0.3400	Ave		0.3567				3.2		15.0			
Bromomethane	0.1890 0.1391	0.2017	0.1749	0.1802	0.1567	Ave		0.1736				13.0		15.0			
Chloroethane	0.2019 0.1758	0.2062	0.2011	0.2019	0.1781	Ave		0.1942				6.9		15.0			
Trichlorofluoromethane	0.3612 0.4612	0.4068	0.4160	0.4718	0.4151	Ave		0.4220				9.5		15.0			
Acrolein	0.0354 0.0390	0.0360	0.0412	0.0385	0.0385	Ave		0.0381				5.5		15.0			
1,1-Dichloroethene	0.2606 0.3002	0.2701	0.3027	0.2933	0.2878	Ave		0.2858				5.9		15.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1699 0.2664	0.2463	0.2599	0.2797	0.2418	Lin1	-0.066	0.2647							0.9970		0.9900
Acetone	0.1464 0.0778	0.1098	0.0915	0.0837	0.0790	Lin1	0.1407	0.0761							1.0000		0.9900
Iodomethane	0.5809 0.5547	0.5936	0.6061	0.5616	0.5663	Ave		0.5772				3.5		15.0			
Carbon disulfide	0.7340 0.9863	0.8373	0.8869	0.9028	0.9191	Ave		0.8777				9.7		15.0			
Acetonitrile	0.0291 0.0267	0.0296	0.0305	0.0294	0.0288	Ave		0.0291				4.4		15.0			
Methyl acetate	0.2008 0.1934	0.1999	0.2171	0.1952	0.2023	Ave		0.2014				4.2		15.0			
Methylene Chloride	0.5873 0.3347	0.4885	0.4223	0.3674	0.3557	Lin1	0.2926	0.3346							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Methyl-2-propanol	0.0136 0.0125	0.0147	0.0150	0.0147	0.0151	Ave		0.0143				7.0		15.0			
Acrylonitrile	0.0980 0.0984	0.1003	0.1029	0.1021	0.1010	Ave		0.1004				2.0		15.0			
Methyl tert-butyl ether	0.7516 0.7618	0.7815	0.8147	0.7487	0.7720	Ave		0.7717				3.2		15.0			
trans-1,2-Dichloroethene	0.3444 0.3299	0.3478	0.3590	0.3273	0.3332	Ave		0.3403				3.6		15.0			
Hexane	0.0375 0.0695	0.0610	0.0564	0.0691	0.0606	Lin1	-0.028	0.0679							0.9950		0.9900
1,1-Dichloroethane	0.5836 0.5697	0.6058	0.6199	0.5644	0.5890	Ave		0.5887			0.1000	3.6		15.0			
Vinyl acetate	0.0286 0.0466	0.0365	0.0439	0.0417	0.0473	Lin1	-0.020	0.0470							0.9990		0.9900
2,2-Dichloropropane	0.2762 0.3365	0.2942	0.3279	0.3174	0.3214	Ave		0.3123				7.3		15.0			
cis-1,2-Dichloroethene	0.3692 0.3507	0.3749	0.3943	0.3537	0.3664	Ave		0.3682				4.3		15.0			
2-Butanone (MEK)	0.1098 0.1065	0.1098	0.1208	0.1033	0.1116	Ave		0.1103				5.4		15.0			
Bromochloromethane	0.1670 0.1706	0.1824	0.1854	0.1735	0.1762	Ave		0.1758				4.0		15.0			
Tetrahydrofuran	0.0715 0.0661	0.0679	0.0721	0.0692	0.0709	Ave		0.0696				3.3		15.0			
Chloroform	0.6200 0.5908	0.6401	0.6524	0.5886	0.6127	Ave		0.6174				4.2		15.0			
1,1,1-Trichloroethane	0.3865 0.4831	0.4443	0.4647	0.4592	0.4699	Ave		0.4513				7.6		15.0			
Cyclohexane	0.3227 0.5677	0.4828	0.5322	0.5647	0.5104	Lin1	-0.205	0.5608							0.9970		0.9900
1,1-Dichloropropene	0.3773 0.4533	0.4544	0.4504	0.4509	0.4526	Ave		0.4398				7.0		15.0			
Carbon tetrachloride	0.2383 0.4269	0.3514	0.3714	0.3843	0.3934	Lin1	-0.187	0.4193							0.9980		0.9900
Benzene	1.3052 1.2705	1.3308	1.3607	1.2305	1.2934	Ave		1.2985				3.5		15.0			
1,2-Dichloroethane	0.4296 0.4396	0.4756	0.4725	0.4328	0.4641	Ave		0.4524				4.6		15.0			
Trichloroethene	0.3385 0.3447	0.3510	0.3477	0.3335	0.3508	Ave		0.3444				2.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.2857 0.5039	0.4241	0.4325	0.4953	0.4470	Lin1	-0.201	0.4943							0.9970		0.9900
1,2-Dichloropropane	0.2709 0.2863	0.2964	0.3076	0.2818	0.2938	Ave		0.2895				4.4		15.0			
Dibromomethane	0.1539 0.1649	0.1605	0.1721	0.1582	0.1701	Ave		0.1633				4.3		15.0			
1,4-Dioxane	0.0014 0.0015	0.0018	0.0030	0.0026	0.0026	Qua	-0.178	0.0038	0						0.9940		0.9900
Bromodichloromethane	0.2909 0.3604	0.3021	0.3331	0.3139	0.3609	Ave		0.3269				9.1		15.0			
2-Chloroethyl vinyl ether	0.0992 0.1091	0.0938	0.1128	0.0989	0.1161	Ave		0.1050				8.5		15.0			
cis-1,3-Dichloropropene	0.2349 0.3795	0.2697	0.3171	0.3173	0.3821	Lin1	-0.199	0.3788							0.9970		0.9900
4-Methyl-2-pentanone (MIBK)	0.1765 0.2058	0.1891	0.2131	0.1960	0.2150	Ave		0.1993				7.5		15.0			
Toluene	1.9161 1.9047	1.8662	1.9982	1.7542	1.9102	Ave		1.8916				4.2		15.0			
trans-1,3-Dichloropropene	0.3141 0.4412	0.3140	0.3609	0.3496	0.4297	Ave		0.3683				15.0		15.0			
Ethyl methacrylate	0.3098 0.4258	0.3776	0.4174	0.3868	0.4359	Ave		0.3922				12.0		15.0			
1,1,2-Trichloroethane	0.3262 0.3007	0.3134	0.3313	0.2971	0.3166	Ave		0.3142				4.3		15.0			
Tetrachloroethene	0.3858 0.3859	0.3756	0.3991	0.3773	0.3838	Ave		0.3846				2.2		15.0			
1,3-Dichloropropane	0.5974 0.5593	0.5592	0.5927	0.5286	0.5749	Ave		0.5687				4.5		15.0			
2-Hexanone	0.1787 0.1854	0.1732	0.1972	0.1804	0.2018	Ave		0.1861				6.0		15.0			
Dibromochloromethane	0.2749 0.3468	0.2513	0.3065	0.2828	0.3389	Ave		0.3002				12.0		15.0			
1,2-Dibromoethane	0.3068 0.3045	0.2751	0.3065	0.2850	0.3251	Ave		0.3005				5.9		15.0			
Chlorobenzene	1.2400 1.1209	1.1909	1.2240	1.0799	1.1677	Ave		1.1706			0.3000	5.2		15.0			
1,1,1,2-Tetrachloroethane	0.3197 0.4199	0.3668	0.3986	0.3861	0.4190	Ave		0.3850				9.8		15.0			
Ethylbenzene	0.6176 0.6177	0.5971	0.6645	0.5990	0.6284	Ave		0.6207				4.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	1.5176 1.5491	1.5455	1.6281	1.5016	1.5882	Ave		1.5550				3.0		15.0			
o-Xylene	0.7759 0.7617	0.7930	0.8314	0.7515	0.7835	Ave		0.7828				3.6		15.0			
Styrene	1.1892 1.1915	1.2076	1.2895	1.1486	1.2415	Ave		1.2113				4.0		15.0			
Bromoform	0.1321 0.1884	0.1523	0.1515	0.1518	0.1853	Ave		0.1602			0.1000	14.0		15.0			
Isopropylbenzene	1.7171 1.9089	1.8085	1.9726	1.8518	1.9721	Ave		1.8718				5.3		15.0			
Bromobenzene	0.9398 0.9453	0.9188	1.0085	0.9241	0.9604	Ave		0.9495				3.4		15.0			
1,1,2,2-Tetrachloroethane	0.7296 0.7349	0.7330	0.7797	0.7228	0.7468	Ave		0.7411			0.3000	2.8		15.0			
1,2,3-Trichloropropane	0.2781 0.2451	0.2474	0.2494	0.2385	0.2556	Ave		0.2524				5.5		15.0			
trans-1,4-Dichloro-2-butene	0.0950 0.0957	0.1049	0.1143	0.1033	0.1289	Ave		0.1070				12.0		15.0			
N-Propylbenzene	0.7693 0.9517	0.8972	0.9729	0.9191	0.9241	Ave		0.9057				7.9		15.0			
2-Chlorotoluene	0.8295 0.8755	0.8598	0.9059	0.8626	0.8785	Ave		0.8687				2.9		15.0			
1,3,5-Trimethylbenzene	2.6488 2.9564	2.7181	2.9495	2.7753	2.9407	Ave		2.8315				4.8		15.0			
4-Chlorotoluene	2.7250 2.7974	2.8497	2.9460	2.7189	2.8387	Ave		2.8126				3.0		15.0			
tert-Butylbenzene	1.8754 2.4909	2.0950	2.3141	2.2759	2.4091	Ave		2.2434				10.0		15.0			
1,2,4-Trimethylbenzene	2.6889 2.9811	2.9189	3.0723	2.9016	3.0005	Ave		2.9272				4.5		15.0			
sec-Butylbenzene	2.5251 3.3244	2.9153	3.2535	3.1802	3.2440	Ave		3.0737				9.9		15.0			
1,3-Dichlorobenzene	1.7883 1.6325	1.8202	1.7917	1.6722	1.7052	Ave		1.7350				4.4		15.0			
p-Isopropyltoluene	2.3312 2.8386	2.6287	2.8864	2.7363	2.8699	Ave		2.7152				7.8		15.0			
1,4-Dichlorobenzene	1.9777 1.6881	1.8507	1.8834	1.6965	1.7485	Ave		1.8075				6.4		15.0			
1,2-Dichlorobenzene	1.8184 1.6301	1.7370	1.8480	1.6916	1.7145	Ave		1.7399				4.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butylbenzene	2.0987 2.3590	2.3764	2.4633	2.3556	2.4187	Ave		2.3453				5.4		15.0			
1,2-Dibromo-3-Chloropropane	0.1119 0.1136	0.1119	0.1143	0.1216	0.1249	Ave		0.1164				4.7		15.0			
1,3,5-Trichlorobenzene	1.3882 1.0678	1.4159	1.4042	1.2771	1.2396	Ave		1.2988				10.0		15.0			
1,2,4-Trichlorobenzene	1.3121 0.9546	1.3125	1.4079	1.2089	1.1472	Ave		1.2239				13.0		15.0			
Hexachlorobutadiene	0.6411 0.4170	0.7425	0.6785	0.6214	0.5715	Qua	-0.026	0.7166	-0.007						1.0000		0.9900
Naphthalene	2.4104 1.9822	2.4696	2.8259	2.6642	2.3789	Ave		2.4552				12.0		15.0			
1,2,3-Trichlorobenzene	1.2111 0.6861	1.2650	1.2843	1.1033	0.9240	Qua	0.3797	1.1674	-0.012						0.9990		0.9900
Dibromofluoromethane (Surr)	0.3187 0.3074	0.3212	0.3241	0.2912	0.3056	Ave		0.3114				4.0		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3798 0.3617	0.3937	0.3879	0.3647	0.3640	Ave		0.3753				3.7		15.0			
Toluene-d8 (Surr)	1.6570 1.6274	1.6443	1.6529	1.5337	1.5994	Ave		1.6191				2.9		15.0			
4-Bromofluorobenzene (Surr)	0.5149 0.4802	0.5436	0.5458	0.4731	0.4962	Ave		0.5090				6.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-42081/7	UXC3081.D
Level 2	STD8260 240-42081/6	UXC3080.D
Level 3	STD8260 240-42081/5	UXC3079.D
Level 4	STD8260 240-42081/4	UXC3078.D
Level 5	STD8260 240-42081/3	UXC3077.D
Level 6	STD8260 240-42081/2	UXC3076.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	38381 2301553	90956	232130	552710	1002000	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	61002 2247070	124488	304583	593837	1165723	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	54901 2299169	108696	276648	577601	1113570	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	29758 892561	61547	132219	280423	513289	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	31792 1128233	62903	151990	314098	583416	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	56883 2959738	124130	314435	734106	1359721	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	55703 2500686	109975	311121	599405	1262602	10.0 400	20.0	50.0	100	200
1,1-Dichloroethene	FB	Ave	41044 1926454	82415	228777	456310	942598	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroet hane	FB	Lin1	26759 1709798	75152	196492	435164	792098	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	46103 999124	66973	138348	260570	517489	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	91476 3559992	181122	458153	873811	1854986	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	115590 6330223	255455	670432	1404641	3010486	1.00 40.0	2.00	5.00	10.0	20.0
Acetonitrile	FB	Ave	45895 1716371	90457	230680	457692	944809	10.0 400	20.0	50.0	100	200
Methyl acetate	FB	Ave	63234 2482882	121960	328210	607500	1325040	2.00 80.0	4.00	10.0	20.0	40.0
Methylene Chloride	FB	Lin1	92488 2148010	149046	319243	571538	1165105	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	42916 1606936	89707	227159	456949	986371	20.0 800	40.0	100	200	400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	30861 1262552	61187	155614	317552	661945	2.00 80.0	4.00	10.0	20.0	40.0
Methyl tert-butyl ether	FB	Ave	118355 4889191	238451	615841	1164799	2528791	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	54242 2117387	106108	271370	509184	1091537	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Lin1	5898 446031	18608	42639	107536	198487	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	91902 3656320	184842	468585	878115	1929222	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Lin1	4507 298900	11125	33152	64828	154989	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	43488 2159602	89775	247892	493778	1052714	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	58140 2250613	114380	298076	550251	1200241	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	34597 1367580	67002	182681	321325	731298	2.00 80.0	4.00	10.0	20.0	40.0
Bromochloromethane	FB	Ave	26293 1094859	55639	140113	269887	576990	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	11254 424334	20729	54512	107614	232360	1.00 40.0	2.00	5.00	10.0	20.0
Chloroform	FB	Ave	97641 3791768	195298	493176	915801	2006949	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	60859 3100765	135544	351243	714511	1539149	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Lin1	50815 3643305	147304	402277	878562	1671708	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	59416 2909386	138649	340451	701470	1482413	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Lin1	37533 2740150	107225	280724	597865	1288662	1.00 40.0	2.00	5.00	10.0	20.0
Benzene	FB	Ave	205533 8154311	406034	1028569	1914371	4236712	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	67657 2821535	145105	357192	673312	1520118	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	53304 2212120	107096	262863	518792	1149156	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Lin1	44998 3234226	129393	326907	770537	1464283	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	42662 1837222	90426	232542	438496	962284	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dibromomethane	FB	Ave	24237 1058568	48961	130105	246150	557180	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Qua	10982 465497	26799	111818	200457	428252	50.0 2000	100	250	500	1000
Bromodichloromethane	FB	Ave	45809 2313169	92161	251807	488414	1182023	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	31240 1400212	57213	170465	307834	760602	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Lin1	36985 2435869	82286	239682	493739	1251478	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	55593 2642271	115417	322116	610028	1408192	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	191196 8058331	378681	994743	1845940	4195177	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	31341 1866584	63708	179673	367896	943782	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	30912 1801497	76613	207801	407039	957399	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	32549 1272036	63601	164942	312603	695416	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	38494 1632762	76220	198655	396984	842886	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	59607 2366216	113479	295042	556209	1262595	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	35662 1568624	70287	196381	379725	886564	2.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Ave	27428 1467107	51002	152570	297623	744213	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	30612 1288061	55824	152577	299894	714069	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	123736 4742117	241643	609313	1136340	2564572	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	31899 1776296	74424	198402	406255	920179	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	61629 2613472	121151	330774	630336	1380004	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	302868 13107573	627220	1620992	3160329	6976096	2.00 80.0	4.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	77425 3222363	160909	413867	790781	1720705	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	118665 5040695	245037	641934	1208712	2726542	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	13180 796929	30908	75407	159757	406929	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	171340 8076132	366980	981994	1948623	4331099	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	52082 1973669	101412	272735	507060	1106765	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	40435 1534367	80904	210875	396588	860615	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	15415 511720	27312	67461	130865	294536	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	5266 199806	11574	30915	56664	148567	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	42637 1987154	99032	263105	504320	1065005	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	45974 1828016	94903	245005	473324	1012473	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	146797 6172748	300012	797695	1522817	3389043	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	151022 5840838	314535	796747	1491861	3271446	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	103936 5200779	231232	625847	1248826	2776332	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	149019 6224324	322172	830903	1592120	3457892	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	139943 6941085	321774	879891	1744989	3738591	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	99109 3408552	200906	484562	917532	1965208	1.00 40.0	2.00	5.00	10.0	20.0
p-Isopropyltoluene	DCB	Ave	129196 5926789	290143	780605	1501409	3307425	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	109608 3524607	204270	509371	930874	2015089	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	100777 3403582	191715	499785	928187	1975869	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	116313 4925356	262288	666185	1292525	2787378	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	6199 237133	12353	30907	66735	143912	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	76933 2229544	156283	379759	700773	1428620	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	72717 1993145	144864	380771	663313	1322106	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 11:24 Calibration End Date: 04/29/2012 13:17 Calibration ID: 8421

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Hexachlorobutadiene	DCB	Qua	35529 870680	81954	183505	340967	658611	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	133586 4138676	272576	764259	1461861	2741561	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Qua	67122 1432422	139625	347345	605370	1064803	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	50187 1972771	97992	244997	453133	1001096	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	59815 2321655	120127	293241	567405	1192270	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	165340 6885189	333652	822828	1613862	3512483	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	51375 2031655	110299	271711	497810	1089849	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3076.D
 Lims ID: STD8260 L6 Client ID:
 Inject. Date: 29-Apr-2012 11:24:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: 240-0009503-002
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 1
 Lims Batch ID: 42081 Lims Sample ID: 2
 Sublist: chrom-8260_15*sub20
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:34 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 29-Apr-2012 12:07:41

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.668	-0.012	99	1604539	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	85	1057672	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	81	521980	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	68	1972771	39.5	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.384	4.383	0.001	0	2321655	38.6	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	6885189	40.2	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.404	8.403	0.001	96	2031655	37.7	
12 Dichlorodifluoromethane	85	1.158	1.158	0.0	88	2301553	46.1	
13 Chloromethane	50	1.277	1.277	0.0	89	2247070	36.8	
14 Vinyl chloride	62	1.360	1.360	0.0	83	2299169	40.2	
15 Bromomethane	94	1.597	1.597	0.0	90	892561	32.0	
16 Chloroethane	64	1.668	1.668	0.0	95	1128233	36.2	
18 Trichlorofluoromethane	101	1.858	1.858	0.0	87	2959738	43.7	
20 Acrolein	56	2.178	2.178	0.0	97	2500686	409.0	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	90	1926454	42.0	
23 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.285	2.284	0.001	78	1709798	40.5	
22 Acetone	43	2.308	2.308	0.0	97	999124	80.0	
24 Iodomethane	142	2.379	2.379	0.0	99	3559992	38.4	
26 Carbon disulfide	76	2.427	2.427	0.0	99	6330223	44.9	
27 Acetonitrile	41	2.546	2.545	0.001	100	1716371	368.2	
28 Methyl acetate	43	2.581	2.581	0.0	98	2482882	76.8	
30 Methylene Chloride	84	2.664	2.664	0.0	89	2148010	39.1	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	92	1606936	701.9	
32 Acrylonitrile	53	2.866	2.866	0.0	98	1262552	78.3	
33 trans-1,2-Dichloroethene	96	2.889	2.889	0.0	93	2117387	38.8	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	91	4889191	39.5	
35 Hexane	86	3.115	3.115	0.0	94	446031	41.4	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	85	3656320	38.7	
37 Vinyl acetate	86	3.281	3.281	0.0	97	298900	40.1	
42 cis-1,2-Dichloroethene	96	3.708	3.708	0.0	71	2250613	38.1	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 2,2-Dichloropropane	77	3.708	3.708	0.0	62	2159602	43.1	
41 2-Butanone (MEK)	43	3.731	3.731	0.0	99	1367580	77.3	
47 Chlorobromomethane	128	3.909	3.909	0.0	91	1094859	38.8	
48 Tetrahydrofuran	42	3.945	3.945	0.0	91	424334	38.0	
49 Chloroform	83	3.980	3.980	0.0	81	3791768	38.3	
50 1,1,1-Trichloroethane	97	4.123	4.123	0.0	89	3100765	42.8	
51 Cyclohexane	56	4.170	4.158	0.012	90	3643305	40.9	
53 Carbon tetrachloride	117	4.253	4.253	0.0	75	2740150	41.2	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	93	2909386	41.2	
55 Benzene	78	4.431	4.431	0.0	95	8154311	39.1	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	92	2821535	38.9	
60 Trichloroethene	130	4.965	4.965	0.001	93	2212120	40.0	
63 Methylcyclohexane	83	5.131	5.131	0.0	89	3234226	41.2	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	92	1837222	39.6	
65 Dibromomethane	93	5.261	5.261	0.0	86	1058568	40.4	
66 1,4-Dioxane	88	5.285	5.285	0.0	94	465497	1336.1	
67 Dichlorobromomethane	83	5.392	5.391	0.001	94	2313169	44.1	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	93	1400212	83.1	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	93	2435869	40.6	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	97	2642271	82.6	
72 Toluene	91	6.067	6.067	0.0	97	8058331	40.3	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	90	1866584	47.9	
74 Ethyl methacrylate	69	6.352	6.352	0.0	90	1801497	43.4	
75 1,1,2-Trichloroethane	97	6.435	6.423	0.012	87	1272036	38.3	
77 Tetrachloroethene	164	6.554	6.554	0.0	91	1632762	40.1	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	90	2366216	39.3	
78 2-Hexanone	43	6.660	6.660	0.0	97	1568624	79.7	
79 Chlorodibromomethane	129	6.779	6.779	0.0	87	1467107	46.2	
123 Ethylene Dibromide	107	6.874	6.874	0.0	98	1288061	40.5	
82 Chlorobenzene	112	7.324	7.324	0.0	94	4742117	38.3	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	88	1776296	43.6	
84 Ethylbenzene	106	7.431	7.431	0.0	97	2613472	39.8	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	92	13107573	79.7	
85 o-Xylene	106	7.906	7.905	0.001	97	3222363	38.9	
86 Styrene	104	7.917	7.917	0.0	92	5040695	39.3	
87 Bromoform	173	8.095	8.095	0.0	99	796929	47.0	
88 Isopropylbenzene	105	8.261	8.261	0.0	95	8076132	40.8	
91 Bromobenzene	156	8.534	8.534	0.0	93	1973669	39.8	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	83	1534367	39.7	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	70	511720	38.8	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	40	199806	35.8	
94 N-Propylbenzene	120	8.653	8.653	0.001	98	1987154	42.0	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	1828016	40.3	
96 1,3,5-Trimethylbenzene	105	8.819	8.819	0.0	89	6172748	41.8	
104 4-Chlorotoluene	91	8.831	8.830	0.0	99	5840838	39.8	
97 tert-Butylbenzene	119	9.127	9.127	0.0	90	5200779	44.4	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	96	6224324	40.7	
99 sec-Butylbenzene	105	9.340	9.340	0.0	94	6941085	43.3	
100 1,3-Dichlorobenzene	146	9.447	9.435	0.012	97	3408552	37.6	
101 4-Isopropyltoluene	119	9.495	9.494	0.001	91	5926789	41.8	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	96	3524607	37.4	
105 n-Butylbenzene	91	9.886	9.886	0.0	96	4925356	40.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	81	3403582	37.5	
107 1,2-Dibromo-3-Chloropropane	157	10.657	10.657	0.0	91	237133	39.0	
108 1,3,5-Trichlorobenzene	180	10.858	10.858	0.0	95	2229544	32.9	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	92	1993145	31.2	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	92	870680	39.9	
111 Naphthalene	128	11.700	11.700	0.0	96	4138676	32.3	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	93	1432422	40.3	
S 137 Trihalomethanes, Total	1				0		175.6	
S 11 1,2-Dichloroethene, Total	96				0		76.9	
S 9 1,3-Dichloropropene, Total	75				0		88.5	
S 114 Xylenes, Total	106				0		118.6	

Report Date: 30-Apr-2012 08:42:34

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3076.D

Injection Date: 29-Apr-2012 11:24:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

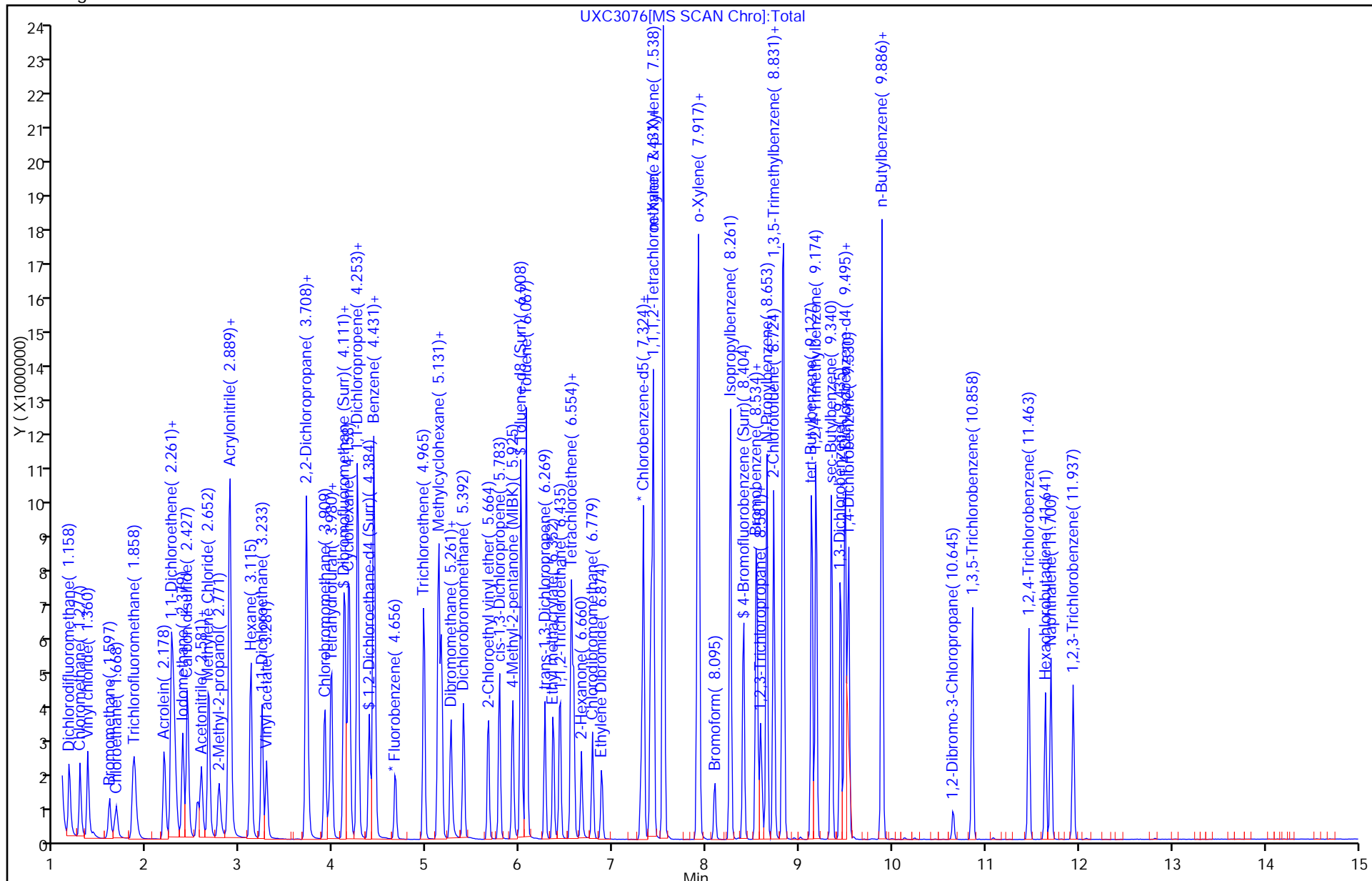
Lims Sample ID: 2

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3077.D
 Lims ID: STD8260 L5 Client ID:
 Inject. Date: 29-Apr-2012 11:47:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: 240-0009503-003
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 2
 Lims Batch ID: 42081 Lims Sample ID: 3
 Sublist: chrom-8260_15*sub20
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:34 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 29-Apr-2012 12:39:53

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.668	-0.012	99	1637773	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	1098085	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	576223	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	64	1001096	19.6	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	1192270	19.4	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	3512483	19.8	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	96	1089849	19.5	
12 Dichlorodifluoromethane	85	1.158	1.158	0.0	88	1002000	19.6	
13 Chloromethane	50	1.276	1.277	-0.001	89	1165723	18.7	
14 Vinyl chloride	62	1.359	1.360	-0.001	83	1113570	19.1	
15 Bromomethane	94	1.597	1.597	0.0	89	513289	18.1	
16 Chloroethane	64	1.668	1.668	0.0	95	583416	18.3	
18 Trichlorofluoromethane	101	1.857	1.858	-0.001	87	1359721	19.7	
20 Acrolein	56	2.178	2.178	0.0	94	1262602	202.3	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	90	942598	20.1	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.284	2.284	0.0	90	792098	18.5	
22 Acetone	43	2.308	2.308	0.0	98	517489	39.7	
24 Iodomethane	142	2.379	2.379	0.0	99	1854986	19.6	
26 Carbon disulfide	76	2.427	2.427	0.0	99	3010486	20.9	
27 Acetonitrile	41	2.545	2.545	0.0	99	944809	198.6	
28 Methyl acetate	43	2.581	2.581	0.0	98	1325040	40.2	
30 Methylene Chloride	84	2.664	2.664	0.0	89	1165105	20.4	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	91	986371	422.1	
32 Acrylonitrile	53	2.865	2.866	-0.001	98	661945	40.2	
33 trans-1,2-Dichloroethene	96	2.889	2.889	0.0	94	1091537	19.6	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	91	2528791	20.0	
35 Hexane	86	3.115	3.115	-0.001	95	198487	18.3	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	85	1929222	20.0	
37 Vinyl acetate	86	3.281	3.281	0.0	96	154989	20.6	
42 cis-1,2-Dichloroethene	96	3.707	3.708	-0.001	70	1200241	19.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 2,2-Dichloropropane	77	3.707	3.708	-0.001	60	1052714	20.6	
41 2-Butanone (MEK)	43	3.731	3.731	0.0	99	731298	40.5	
47 Chlorobromomethane	128	3.909	3.909	0.0	92	576990	20.0	
48 Tetrahydrofuran	42	3.945	3.945	0.0	91	232360	20.4	
49 Chloroform	83	3.980	3.980	0.0	80	2006949	19.8	
50 1,1,1-Trichloroethane	97	4.122	4.123	-0.001	90	1539149	20.8	
51 Cyclohexane	56	4.158	4.158	0.0	92	1671708	18.6	
53 Carbon tetrachloride	117	4.253	4.253	0.0	71	1288662	19.2	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	93	1482413	20.6	
55 Benzene	78	4.431	4.431	0.0	95	4236712	19.9	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	90	1520118	20.5	
60 Trichloroethene	130	4.964	4.965	0.0	94	1149156	20.4	
63 Methylcyclohexane	83	5.130	5.131	-0.001	86	1464283	18.5	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	92	962284	20.3	
65 Dibromomethane	93	5.261	5.261	0.0	86	557180	20.8	
66 1,4-Dioxane	88	5.285	5.285	0.0	94	428252	1071.8	
67 Dichlorobromomethane	83	5.391	5.391	0.0	94	1182023	22.1	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	93	760602	44.2	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	92	1251478	20.7	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	97	1408192	43.2	
72 Toluene	91	6.067	6.067	0.0	97	4195177	20.2	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	90	943782	23.3	
74 Ethyl methacrylate	69	6.352	6.352	0.0	90	957399	22.2	
75 1,1,2-Trichloroethane	97	6.435	6.423	0.012	87	695416	20.2	
77 Tetrachloroethene	164	6.553	6.554	-0.001	91	842886	20.0	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	90	1262595	20.2	
78 2-Hexanone	43	6.660	6.660	0.0	97	886564	43.4	
79 Chlorodibromomethane	129	6.779	6.779	0.0	89	744213	22.6	
123 Ethylene Dibromide	107	6.874	6.874	0.0	99	714069	21.6	
82 Chlorobenzene	112	7.324	7.324	0.0	94	2564572	20.0	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	88	920179	21.8	
84 Ethylbenzene	106	7.431	7.431	0.0	98	1380004	20.2	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	92	6976096	40.9	
85 o-Xylene	106	7.905	7.905	0.0	97	1720705	20.0	
86 Styrene	104	7.917	7.917	0.0	92	2726542	20.5	
87 Bromoform	173	8.095	8.095	0.0	98	406929	23.1	
88 Isopropylbenzene	105	8.261	8.261	0.0	95	4331099	21.1	
91 Bromobenzene	156	8.534	8.534	0.0	81	1106765	20.2	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	83	860615	20.2	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	70	294536	20.3	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	50	148567	24.1	
94 N-Propylbenzene	120	8.652	8.653	0.0	98	1065005	20.4	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	1012473	20.2	
96 1,3,5-Trimethylbenzene	105	8.818	8.819	-0.001	89	3389043	20.8	
104 4-Chlorotoluene	91	8.830	8.830	0.0	98	3271446	20.2	
97 tert-Butylbenzene	119	9.127	9.127	0.0	90	2776332	21.5	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	97	3457892	20.5	
99 sec-Butylbenzene	105	9.340	9.340	0.0	93	3738591	21.1	
100 1,3-Dichlorobenzene	146	9.435	9.435	0.0	97	1965208	19.7	
101 4-Isopropyltoluene	119	9.483	9.494	-0.011	90	3307425	21.1	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	96	2015089	19.3	
105 n-Butylbenzene	91	9.886	9.886	0.0	97	2787378	20.6	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	82	1975869	19.7	
107 1,2-Dibromo-3-Chloropropane	157	10.657	10.657	-0.001	90	143912	21.5	
108 1,3,5-Trichlorobenzene	180	10.858	10.858	0.0	97	1428620	19.1	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	92	1322106	18.7	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	92	658611	20.3	
111 Naphthalene	128	11.700	11.700	0.0	96	2741561	19.4	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	95	1064803	19.5	
S 137 Trihalomethanes, Total	1				0		87.6	
S 11 1,2-Dichloroethene, Total	96				0		39.5	
S 9 1,3-Dichloropropene, Total	75				0		44.0	
S 114 Xylenes, Total	106				0		60.9	

Report Date: 30-Apr-2012 08:42:34

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3077.D

Injection Date: 29-Apr-2012 11:47:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

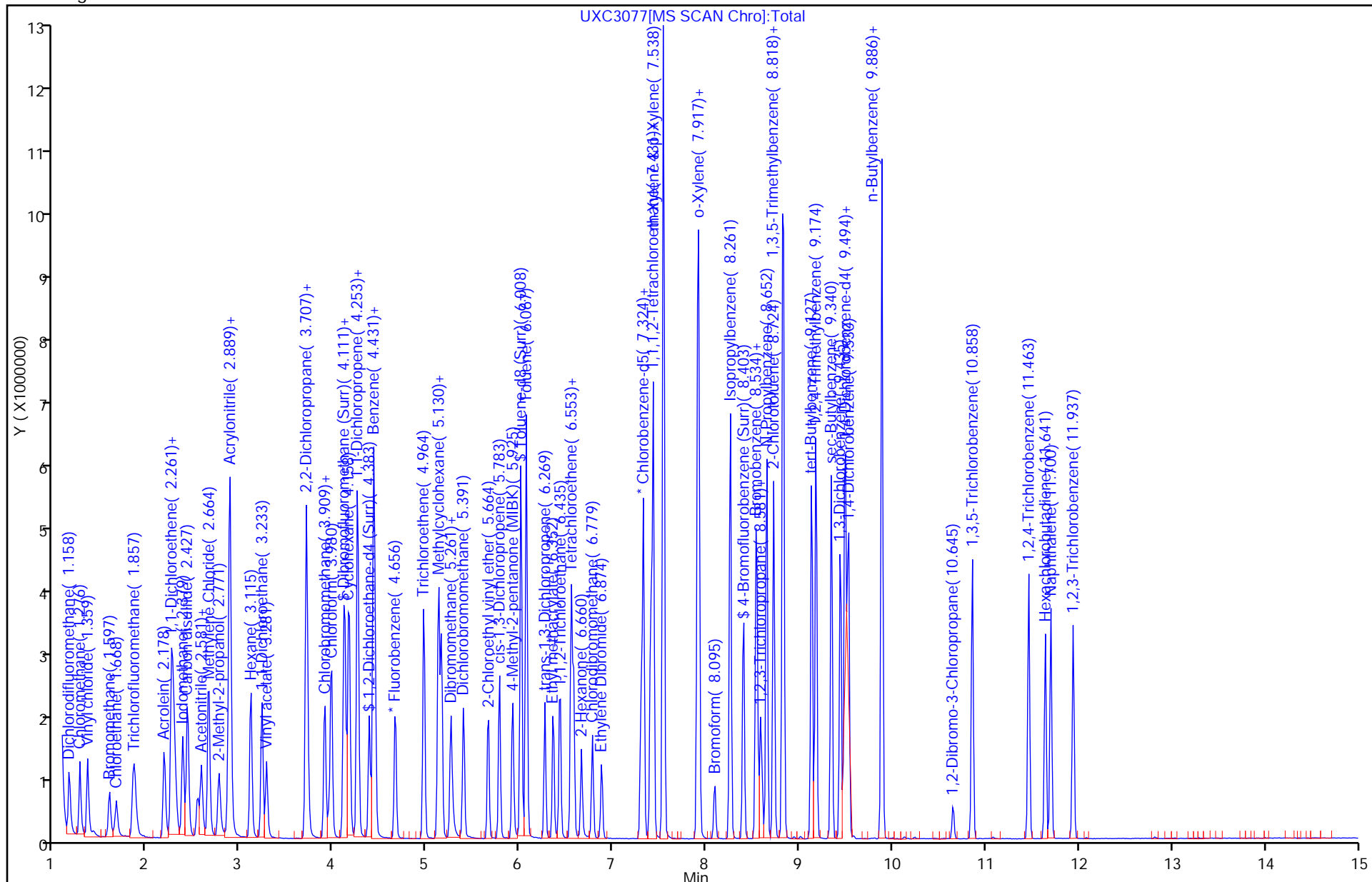
Lims Sample ID: 3

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



07/12/2012

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3078.D
 Lims ID: STD8260 L4 Client ID:
 Inject. Date: 29-Apr-2012 12:09:30 Dil. Factor: 1.0000
 Sample Type: ICIS Calib Level: 4
 Sample ID: 240-0009503-004
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 3
 Lims Batch ID: 42081 Lims Sample ID: 4
 Sublist: chrom-8260_15*sub20
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:35 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.656	0.0	99	1555823	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	1052295	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	94	548707	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	60	453133	9.35	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	567405	9.72	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	1613862	9.47	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	96	497810	9.29	
12 Dichlorodifluoromethane	85	1.158	1.158	0.0	87	552710	11.4	
13 Chloromethane	50	1.277	1.277	0.0	89	593837	10.0	
14 Vinyl chloride	62	1.360	1.360	0.0	82	577601	10.4	
15 Bromomethane	94	1.597	1.597	0.0	91	280423	10.4	
16 Chloroethane	64	1.668	1.668	0.0	95	314098	10.4	
18 Trichlorofluoromethane	101	1.858	1.858	0.0	87	734106	11.2	
20 Acrolein	56	2.178	2.178	0.0	96	599405	101.1	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	90	456310	10.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.284	2.284	0.0	82	435164	10.8	
22 Acetone	43	2.308	2.308	0.0	97	260570	20.2	
24 Iodomethane	142	2.379	2.379	0.0	99	873811	9.73	
26 Carbon disulfide	76	2.427	2.427	0.0	99	1404641	10.3	
27 Acetonitrile	41	2.545	2.545	0.0	100	457692	101.3	
28 Methyl acetate	43	2.581	2.581	0.0	98	607500	19.4	
30 Methylene Chloride	84	2.664	2.664	0.0	89	571538	10.1	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	91	456949	205.8	
32 Acrylonitrile	53	2.866	2.866	0.0	99	317552	20.3	
33 trans-1,2-Dichloroethene	96	2.889	2.889	0.0	94	509184	9.62	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	91	1164799	9.70	
35 Hexane	86	3.115	3.115	0.0	94	107536	10.6	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	85	878115	9.59	
37 Vinyl acetate	86	3.281	3.281	0.0	96	64828	9.29	
42 cis-1,2-Dichloroethene	96	3.708	3.708	0.0	71	550251	9.61	
43 2,2-Dichloropropane	77	3.708	3.708	0.0	61	493778	10.2	
41 2-Butanone (MEK)	43	3.731	3.731	0.0	99	321325	18.7	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
47 Chlorobromomethane	128	3.909	3.909	0.0	91	269887	9.87	
48 Tetrahydrofuran	42	3.945	3.945	0.0	90	107614	9.93	
49 Chloroform	83	3.980	3.980	0.0	81	915801	9.53	
50 1,1,1-Trichloroethane	97	4.123	4.123	0.0	89	714511	10.2	
51 Cyclohexane	56	4.158	4.158	0.0	92	878562	10.4	
53 Carbon tetrachloride	117	4.253	4.253	0.0	68	597865	9.61	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	93	701470	10.3	
55 Benzene	78	4.431	4.431	0.0	95	1914371	9.48	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	87	673312	9.57	
60 Trichloroethene	130	4.965	4.965	0.0	93	518792	9.68	
63 Methylcyclohexane	83	5.131	5.131	0.0	88	770537	10.4	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	92	438496	9.74	
65 Dibromomethane	93	5.261	5.261	0.0	87	246150	9.69	
66 1,4-Dioxane	88	5.285	5.285	0.0	94	200457	441.1	
67 Dichlorobromomethane	83	5.391	5.391	0.0	93	488414	9.60	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	92	307834	18.8	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	90	493739	8.90	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	97	610028	19.7	
72 Toluene	91	6.067	6.067	0.0	98	1845940	9.27	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	91	367896	9.49	
74 Ethyl methacrylate	69	6.352	6.352	0.0	92	407039	9.86	
75 1,1,2-Trichloroethane	97	6.423	6.423	0.0	86	312603	9.45	
77 Tetrachloroethene	164	6.554	6.554	0.0	92	396984	9.81	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	91	556209	9.29	
78 2-Hexanone	43	6.660	6.660	0.0	96	379725	19.4	
79 Chlorodibromomethane	129	6.779	6.779	0.0	87	297623	9.42	
123 Ethylene Dibromide	107	6.874	6.874	0.0	99	299894	9.48	
82 Chlorobenzene	112	7.324	7.324	0.0	93	1136340	9.23	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	92	406255	10.0	
84 Ethylbenzene	106	7.431	7.431	0.0	97	630336	9.65	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	93	3160329	19.3	
85 o-Xylene	106	7.905	7.905	0.0	97	790781	9.60	
86 Styrene	104	7.917	7.917	0.0	91	1208712	9.48	
87 Bromoform	173	8.095	8.095	0.0	89	159757	9.48	
88 Isopropylbenzene	105	8.261	8.261	0.0	95	1948623	9.89	
91 Bromobenzene	156	8.534	8.534	0.0	91	507060	9.73	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	87	396588	9.75	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	79	130865	9.45	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	39	56664	9.65	
94 N-Propylbenzene	120	8.653	8.653	0.0	98	504320	10.1	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	473324	9.93	
96 1,3,5-Trimethylbenzene	105	8.819	8.819	0.0	89	1522817	9.80	
104 4-Chlorotoluene	91	8.830	8.830	0.0	98	1491861	9.67	
97 tert-Butylbenzene	119	9.127	9.127	0.0	89	1248826	10.1	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	97	1592120	9.91	
99 sec-Butylbenzene	105	9.340	9.340	0.0	94	1744989	10.3	
100 1,3-Dichlorobenzene	146	9.435	9.435	0.0	97	917532	9.64	
101 4-Isopropyltoluene	119	9.494	9.494	0.0	91	1501409	10.1	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	95	930874	9.39	
105 n-Butylbenzene	91	9.886	9.886	0.0	97	1292525	10.0	
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	81	928187	9.72	
107 1,2-Dibromo-3-Chloropropane	157	10.657	10.657	0.0	83	66735	10.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
108 1,3,5-Trichlorobenzene	180	10.858	10.858	0.0	97	700773	9.83	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	93	663313	9.88	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	91	340967	9.68	
111 Naphthalene	128	11.700	11.700	0.0	96	1461861	10.9	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	96	605370	10.2	
S 137 Trihalomethanes, Total	1				0		38.0	
S 11 1,2-Dichloroethene, Total	96				0		19.2	
S 9 1,3-Dichloropropene, Total	75				0		18.4	
S 114 Xylenes, Total	106				0		28.9	

Report Date: 30-Apr-2012 08:42:35

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3078.D

Injection Date: 29-Apr-2012 12:09:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

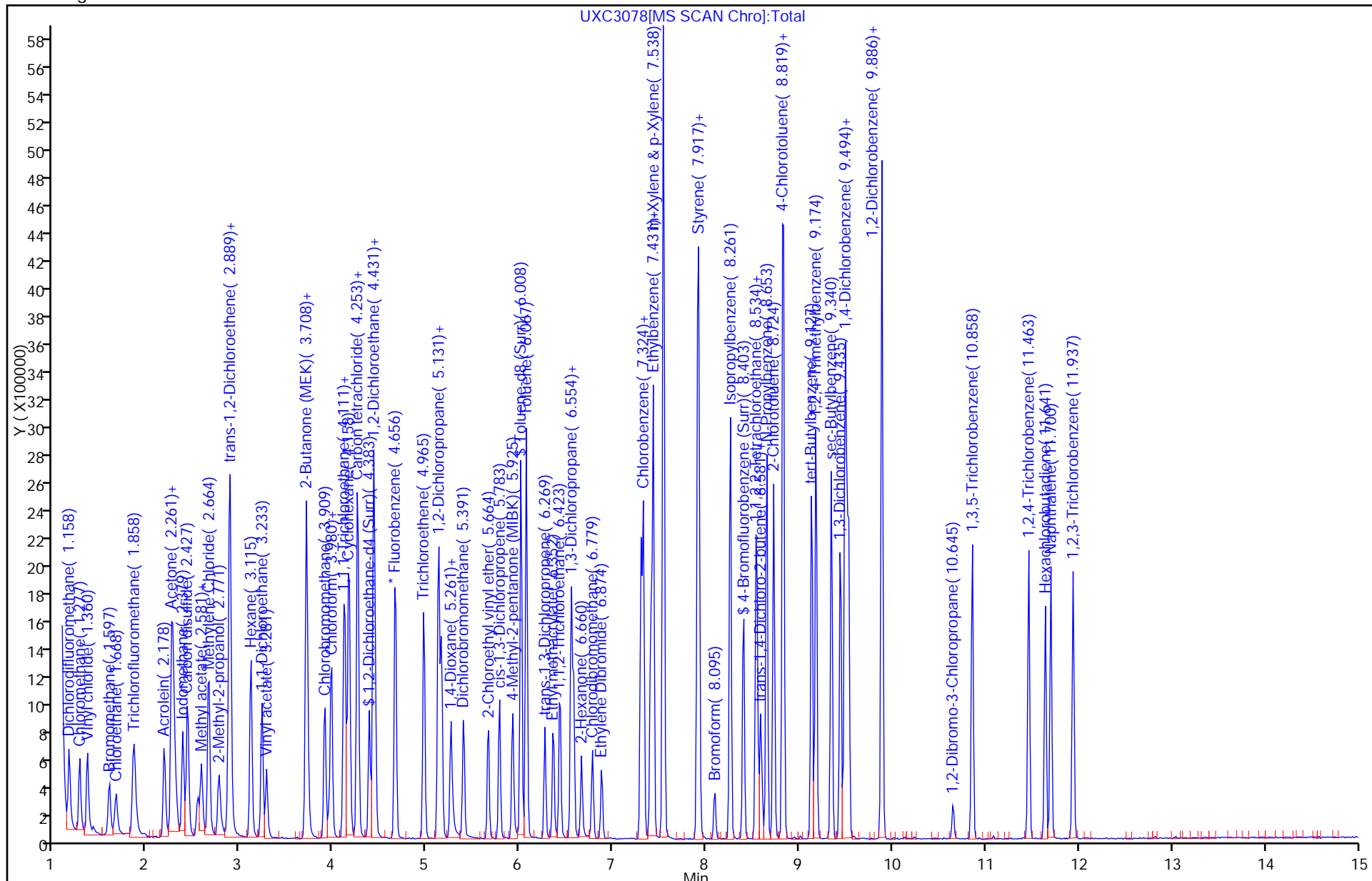
Lims Sample ID: 4

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3079.D
 Lims ID: STD8260 L3 Client ID:
 Inject. Date: 29-Apr-2012 12:32:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: 240-0009503-005
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 4
 Lims Batch ID: 42081 Lims Sample ID: 5
 Sublist: chrom-8260_15*sub20
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:36 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.656	0.012	99	1511819	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	995616	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	540894	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	60	244997	5.20	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	293241	5.17	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	92	822828	5.10	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.392	8.403	-0.011	93	271711	5.36	
12 Dichlorodifluoromethane	85	1.170	1.158	0.012	87	232130	4.93	
13 Chloromethane	50	1.276	1.277	-0.001	88	304583	5.29	
14 Vinyl chloride	62	1.359	1.360	-0.001	82	276648	5.13	
15 Bromomethane	94	1.597	1.597	0.0	91	132219	5.04	
16 Chloroethane	64	1.668	1.668	0.0	93	151990	5.18	
18 Trichlorofluoromethane	101	1.858	1.858	0.0	84	314435	4.93	
20 Acrolein	56	2.190	2.178	0.012	94	311121	54.0	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	98	228777	5.30	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.284	2.284	0.0	82	196492	5.16	
22 Acetone	43	2.308	2.308	0.0	95	138348	10.2	
24 Iodomethane	142	2.379	2.379	0.0	99	458153	5.25	
26 Carbon disulfide	76	2.439	2.427	0.012	99	670432	5.05	
27 Acetonitrile	41	2.545	2.545	0.0	100	230680	52.5	
28 Methyl acetate	43	2.581	2.581	0.0	99	328210	10.8	
30 Methylene Chloride	84	2.664	2.664	0.0	89	319243	5.44	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	89	227159	105.3	
32 Acrylonitrile	53	2.865	2.866	-0.001	95	155614	10.2	
33 trans-1,2-Dichloroethene	96	2.889	2.889	0.0	94	271370	5.28	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	91	615841	5.28	
35 Hexane	86	3.115	3.115	-0.001	93	42639	4.57	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	85	468585	5.26	
37 Vinyl acetate	86	3.281	3.281	0.0	97	33152	5.09	
42 cis-1,2-Dichloroethene	96	3.707	3.708	-0.001	72	298076	5.35	
43 2,2-Dichloropropane	77	3.707	3.708	-0.001	60	247892	5.25	
41 2-Butanone (MEK)	43	3.731	3.731	0.0	99	182681	11.0	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
47 Chlorobromomethane	128	3.909	3.909	0.0	91	140113	5.27	
48 Tetrahydrofuran	42	3.945	3.945	0.0	89	54512	5.18	
49 Chloroform	83	3.980	3.980	0.0	81	493176	5.28	
50 1,1,1-Trichloroethane	97	4.122	4.123	-0.001	92	351243	5.15	
51 Cyclohexane	56	4.170	4.158	0.012	91	402277	5.11	
53 Carbon tetrachloride	117	4.265	4.253	0.012	70	280724	4.87	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	92	340451	5.12	
55 Benzene	78	4.431	4.431	0.0	96	1028569	5.24	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	89	357192	5.22	
60 Trichloroethene	130	4.976	4.965	0.012	93	262863	5.05	
63 Methylcyclohexane	83	5.130	5.131	-0.001	89	326907	4.78	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	91	232542	5.31	
65 Dibromomethane	93	5.261	5.261	0.0	84	130105	5.27	
66 1,4-Dioxane	88	5.285	5.285	0.0	93	111818	259.9	
67 Dichlorobromomethane	83	5.391	5.391	0.0	93	251807	5.10	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	90	170465	10.7	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	89	239682	4.71	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	97	322116	10.7	
72 Toluene	91	6.067	6.067	0.0	98	994743	5.28	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	89	179673	4.90	
74 Ethyl methacrylate	69	6.352	6.352	0.0	90	207801	5.32	
75 1,1,2-Trichloroethane	97	6.435	6.423	0.012	85	164942	5.27	
77 Tetrachloroethene	164	6.553	6.554	-0.001	93	198655	5.19	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	90	295042	5.21	
78 2-Hexanone	43	6.660	6.660	0.0	99	196381	10.6	
79 Chlorodibromomethane	129	6.779	6.779	0.0	87	152570	5.10	
123 Ethylene Dibromide	107	6.874	6.874	0.0	99	152577	5.10	
82 Chlorobenzene	112	7.324	7.324	0.0	94	609313	5.23	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	86	198402	5.18	
84 Ethylbenzene	106	7.431	7.431	0.0	98	330774	5.35	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	93	1620992	10.5	
85 o-Xylene	106	7.905	7.905	0.0	97	413867	5.31	
86 Styrene	104	7.917	7.917	0.0	88	641934	5.32	
87 Bromoform	173	8.095	8.095	0.0	97	75407	4.73	
88 Isopropylbenzene	105	8.261	8.261	0.0	95	981994	5.27	
91 Bromobenzene	156	8.534	8.534	0.0	89	272735	5.31	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	86	210875	5.26	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	81	67461	4.94	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	25	30915	5.34	
94 N-Propylbenzene	120	8.652	8.653	0.0	97	263105	5.37	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	245005	5.21	
96 1,3,5-Trimethylbenzene	105	8.818	8.819	-0.001	89	797695	5.21	
104 4-Chlorotoluene	91	8.830	8.830	0.0	98	796747	5.24	
97 tert-Butylbenzene	119	9.127	9.127	0.0	89	625847	5.16	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	96	830903	5.25	
99 sec-Butylbenzene	105	9.340	9.340	0.0	94	879891	5.29	
100 1,3-Dichlorobenzene	146	9.447	9.435	0.012	97	484562	5.16	
101 4-Isopropyltoluene	119	9.494	9.494	0.0	91	780605	5.32	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	96	509371	5.21	
105 n-Butylbenzene	91	9.886	9.886	0.0	97	666185	5.25	
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	83	499785	5.31	
107 1,2-Dibromo-3-Chloropropane	157	10.657	10.657	-0.001	70	30907	4.91	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
108 1,3,5-Trichlorobenzene	180	10.858	10.858	0.0	96	379759	5.41	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	93	380771	5.75	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	92	183505	5.03	
111 Naphthalene	128	11.700	11.700	0.0	96	764259	5.75	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	95	347345	5.49	
S 137 Trihalomethanes, Total	1				0		20.2	
S 11 1,2-Dichloroethene, Total	96				0		10.6	
S 9 1,3-Dichloropropene, Total	75				0		9.61	
S 114 Xylenes, Total	106				0		15.8	

Report Date: 30-Apr-2012 08:42:36

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3079.D

Injection Date: 29-Apr-2012 12:32:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

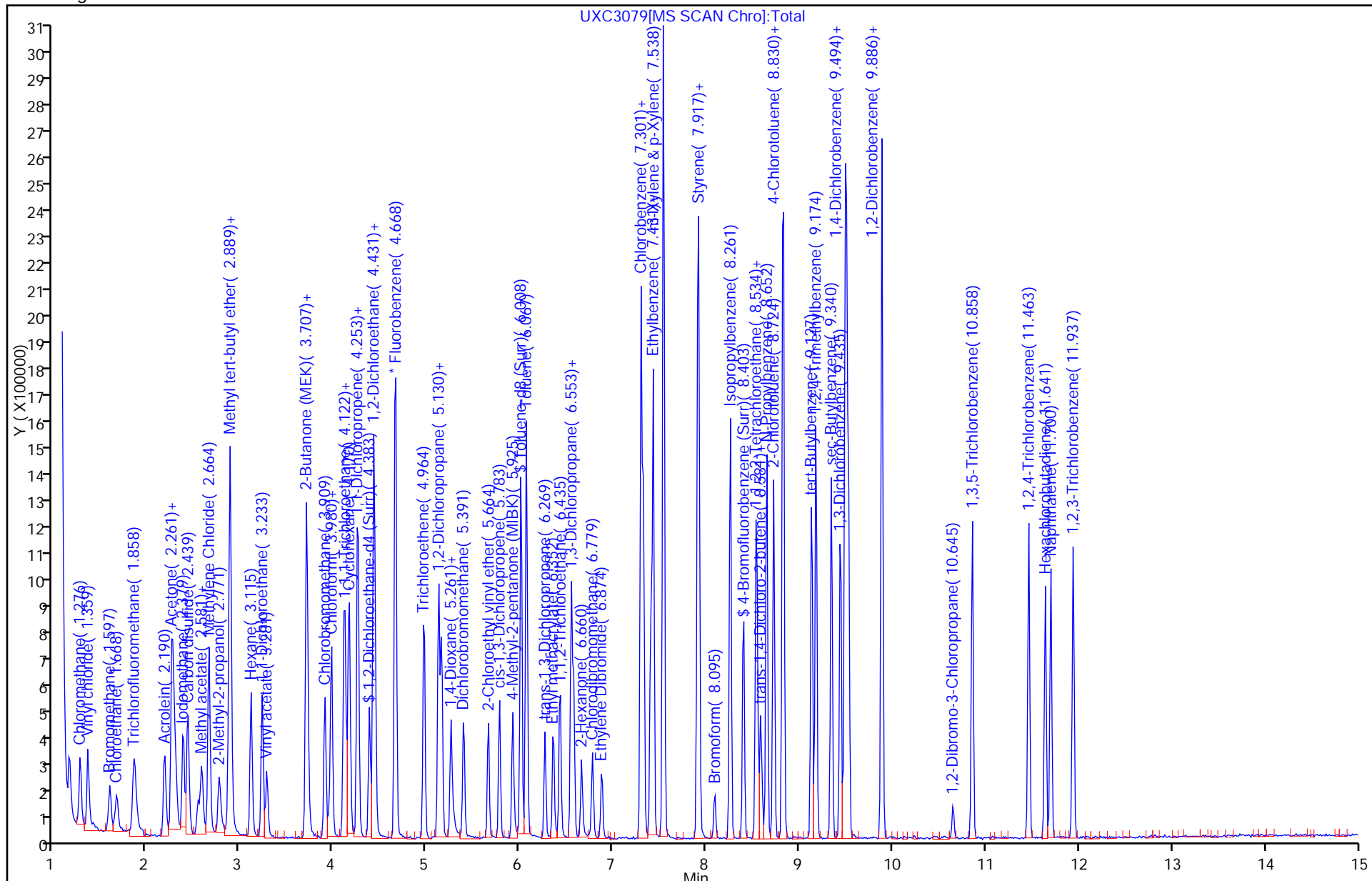
Lims Sample ID: 5

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3080.D
 Lims ID: STD8260 L2 Client ID:
 Inject. Date: 29-Apr-2012 12:54:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: 240-0009503-006
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 5
 Lims Batch ID: 42081 Lims Sample ID: 6
 Sublist: chrom-8260_15*sub20
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:37 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 29-Apr-2012 13:35:24

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.656	0.012	99	1525536	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	1014580	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	94	551871	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	57	97992	2.06	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	120127	2.10	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	91	333652	2.03	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	93	110299	2.14	
12 Dichlorodifluoromethane	85	1.158	1.158	0.0	80	90956	1.91	
13 Chloromethane	50	1.276	1.277	-0.001	86	124488	2.14	
14 Vinyl chloride	62	1.359	1.360	-0.001	97	108696	2.00	
15 Bromomethane	94	1.597	1.597	0.0	90	61547	2.32	
16 Chloroethane	64	1.668	1.668	0.0	91	62903	2.12	
18 Trichlorofluoromethane	101	1.857	1.858	-0.001	93	124130	1.93	
20 Acrolein	56	2.190	2.178	0.012	94	109975	18.9	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	89	82415	1.89	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.284	2.284	0.0	80	75152	2.11	
22 Acetone	43	2.308	2.308	0.0	96	66973	3.92	
24 Iodomethane	142	2.379	2.379	0.0	100	181122	2.06	
26 Carbon disulfide	76	2.439	2.427	0.012	99	255455	1.91	
27 Acetonitrile	41	2.545	2.545	0.0	98	90457	20.4	
28 Methyl acetate	43	2.581	2.581	0.0	96	121960	3.97	
30 Methylene Chloride	84	2.664	2.664	0.0	88	149046	2.05	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	88	89707	41.2	
32 Acrylonitrile	53	2.865	2.866	-0.001	99	61187	3.99	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	91	238451	2.03	
33 trans-1,2-Dichloroethene	96	2.889	2.889	0.0	95	106108	2.04	
35 Hexane	86	3.114	3.115	-0.001	92	18608	2.22	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	85	184842	2.06	
37 Vinyl acetate	86	3.281	3.281	-0.001	97	11125	1.98	
42 cis-1,2-Dichloroethene	96	3.707	3.708	-0.001	73	114380	2.04	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 2,2-Dichloropropane	77	3.707	3.708	-0.001	57	89775	1.88	
41 2-Butanone (MEK)	43	3.731	3.731	0.0	97	67002	3.98	
47 Chlorobromomethane	128	3.909	3.909	0.0	93	55639	2.07	
48 Tetrahydrofuran	42	3.945	3.945	0.0	78	20729	1.95	
49 Chloroform	83	3.980	3.980	0.0	80	195298	2.07	
50 1,1,1-Trichloroethane	97	4.122	4.123	-0.001	93	135544	1.97	
51 Cyclohexane	56	4.170	4.158	0.012	88	147304	2.09	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	90	138649	2.07	
53 Carbon tetrachloride	117	4.253	4.253	0.0	63	107225	2.12	
55 Benzene	78	4.431	4.431	0.0	94	406034	2.05	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	89	145105	2.10	
60 Trichloroethene	130	4.964	4.965	0.0	96	107096	2.04	
63 Methylcyclohexane	83	5.130	5.131	-0.001	87	129393	2.12	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	88	90426	2.05	
65 Dibromomethane	93	5.261	5.261	0.0	79	48961	1.97	
66 1,4-Dioxane	88	5.285	5.285	0.0	92	26799	95.1	
67 Dichlorobromomethane	83	5.391	5.391	0.0	97	92161	1.85	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	89	57213	3.57	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	85	82286	1.95	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	92	115417	3.80	
72 Toluene	91	6.067	6.067	0.0	97	378681	1.97	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	86	63708	1.71	
74 Ethyl methacrylate	69	6.352	6.352	0.0	88	76613	1.93	
75 1,1,2-Trichloroethane	97	6.435	6.423	0.012	88	63601	1.99	
77 Tetrachloroethene	164	6.553	6.554	-0.001	91	76220	1.95	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	92	113479	1.97	
78 2-Hexanone	43	6.660	6.660	0.0	97	70287	3.72	
79 Chlorodibromomethane	129	6.779	6.779	0.0	80	51002	1.67	
123 Ethylene Dibromide	107	6.874	6.874	0.0	96	55824	1.83	
82 Chlorobenzene	112	7.324	7.324	0.0	91	241643	2.03	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	84	74424	1.91	
84 Ethylbenzene	106	7.431	7.431	0.0	97	121151	1.92	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	92	627220	3.98	
85 o-Xylene	106	7.905	7.905	0.0	97	160909	2.03	
86 Styrene	104	7.917	7.917	0.0	91	245037	1.99	
87 Bromoform	173	8.095	8.095	0.0	88	30908	1.90	
88 Isopropylbenzene	105	8.261	8.261	0.0	95	366980	1.93	
91 Bromobenzene	156	8.534	8.534	0.0	81	101412	1.94	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	87	80904	1.98	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	78	27312	1.96	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	1	11574	1.96	
94 N-Propylbenzene	120	8.652	8.653	0.0	96	99032	1.98	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	94903	1.98	
96 1,3,5-Trimethylbenzene	105	8.818	8.819	-0.001	90	300012	1.92	
104 4-Chlorotoluene	91	8.830	8.830	0.0	99	314535	2.03	
97 tert-Butylbenzene	119	9.127	9.127	0.0	88	231232	1.87	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	94	322172	1.99	
99 sec-Butylbenzene	105	9.340	9.340	0.0	93	321774	1.90	
100 1,3-Dichlorobenzene	146	9.447	9.435	0.012	97	200906	2.10	
101 4-Isopropyltoluene	119	9.494	9.494	0.0	92	290143	1.94	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	93	204270	2.05	
105 n-Butylbenzene	91	9.886	9.886	0.0	97	262288	2.03	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	85	191715	2.00	
107 1,2-Dibromo-3-Chloropropane	157	10.645	10.657	-0.012	55	12353	1.92	
108 1,3,5-Trichlorobenzene	180	10.858	10.858	0.0	97	156283	2.18	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	89	144864	2.14	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	86	81954	2.16	
111 Naphthalene	128	11.700	11.700	0.0	96	272576	2.01	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	94	139625	1.88	
S 137 Trihalomethanes, Total	1				0		7.50	
S 11 1,2-Dichloroethene, Total	96				0		4.08	
S 9 1,3-Dichloropropene, Total	75				0		3.65	
S 114 Xylenes, Total	106				0		6.00	

Report Date: 30-Apr-2012 08:42:37

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3080.D

Injection Date: 29-Apr-2012 12:54:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

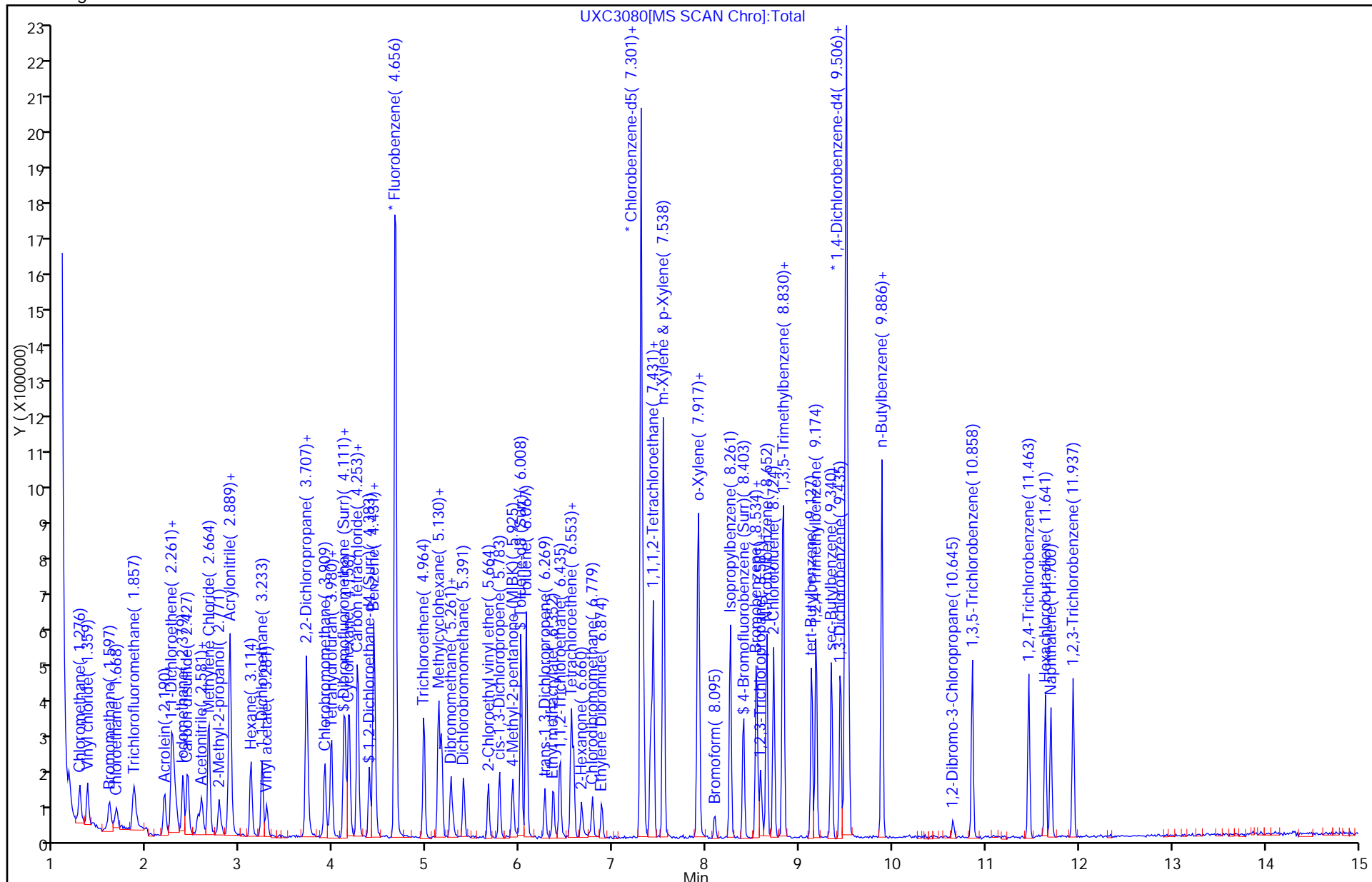
Lims Sample ID: 6

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3081.D
 Lims ID: STD8260 L1 Client ID:
 Inject. Date: 29-Apr-2012 13:17:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: 240-0009503-007
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 6
 Lims Batch ID: 42081 Lims Sample ID: 7
 Sublist: chrom-8260_15*sub20
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:38 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.656	0.012	99	1574764	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	84	997851	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	554209	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	54	50187	1.02	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	59815	1.01	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	90	165340	1.02	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.404	8.403	0.001	87	51375	1.01	
12 Dichlorodifluoromethane	85	1.170	1.158	0.012	79	38381	0.7826	
13 Chloromethane	50	1.277	1.277	0.0	89	61002	1.02	
14 Vinyl chloride	62	1.360	1.360	0.0	80	54901	0.9773	
15 Bromomethane	94	1.597	1.597	0.0	89	29758	1.09	
16 Chloroethane	64	1.668	1.668	0.0	90	31792	1.04	
18 Trichlorofluoromethane	101	1.858	1.858	0.0	79	56883	0.8559	
20 Acrolein	56	2.190	2.178	0.012	89	55703	9.28	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	85	41044	0.9120	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.285	2.284	0.001	67	26759	0.8923	
22 Acetone	43	2.320	2.308	0.012	94	46103	2.00	
24 Iodomethane	142	2.379	2.379	0.0	98	91476	1.01	
26 Carbon disulfide	76	2.439	2.427	0.012	98	115590	0.8363	
27 Acetonitrile	41	2.545	2.545	0.0	100	45895	10.0	
28 Methyl acetate	43	2.581	2.581	0.0	96	63234	1.99	
30 Methylene Chloride	84	2.664	2.664	0.0	84	92488	0.8810	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	87	42916	19.1	
32 Acrylonitrile	53	2.877	2.866	0.011	53	30861	1.95	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	90	118355	0.9739	
33 trans-1,2-Dichloroethene	96	2.889	2.889	0.0	92	54242	1.01	
35 Hexane	86	3.115	3.115	0.0	89	5898	0.9699	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	82	91902	0.99	
37 Vinyl acetate	86	3.281	3.281	0.0	97	4507	1.04	
42 cis-1,2-Dichloroethene	96	3.708	3.708	0.0	70	58140	1.00	
43 2,2-Dichloropropane	77	3.708	3.708	0.0	59	43488	0.8844	
41 2-Butanone (MEK)	43	3.731	3.731	0.0	95	34597	1.99	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
47 Chlorobromomethane	128	3.909	3.909	0.0	89	26293	0.9497	
48 Tetrahydrofuran	42	3.957	3.945	0.012	80	11254	1.03	
49 Chloroform	83	3.980	3.980	0.0	76	97641	1.00	
50 1,1,1-Trichloroethane	97	4.123	4.123	0.0	88	60859	0.8564	
51 Cyclohexane	56	4.170	4.158	0.012	85	50815	0.9408	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	89	59416	0.8579	
53 Carbon tetrachloride	117	4.265	4.253	0.012	58	37533	1.01	
55 Benzene	78	4.431	4.431	0.0	95	205533	1.01	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	95	67657	0.9497	
60 Trichloroethene	130	4.965	4.965	0.001	91	53304	0.9829	
63 Methylcyclohexane	83	5.131	5.131	0.0	86	44998	0.9850	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	85	42662	0.9359	
65 Dibromomethane	93	5.261	5.261	0.0	82	24237	0.9425	
66 1,4-Dioxane	88	5.285	5.285	0.0	89	10982	66.0	
67 Dichlorobromomethane	83	5.391	5.391	0.0	94	45809	0.8899	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	86	31240	1.89	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	76	36985	1.14	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	92	55593	1.77	
72 Toluene	91	6.067	6.067	0.0	97	191196	1.01	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	78	31341	0.8529	
74 Ethyl methacrylate	69	6.364	6.352	0.012	78	30912	0.7898	
75 1,1,2-Trichloroethane	97	6.435	6.423	0.012	80	32549	1.04	
77 Tetrachloroethene	164	6.554	6.554	0.0	88	38494	1.00	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	86	59607	1.05	
78 2-Hexanone	43	6.660	6.660	0.0	88	35662	1.92	
79 Chlorodibromomethane	129	6.779	6.779	0.0	78	27428	0.9156	
123 Ethylene Dibromide	107	6.874	6.874	0.0	87	30612	1.02	
82 Chlorobenzene	112	7.324	7.324	0.0	93	123736	1.06	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	76	31899	0.8304	
84 Ethylbenzene	106	7.431	7.431	0.0	97	61629	1.00	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	93	302868	1.95	
85 o-Xylene	106	7.905	7.905	0.0	97	77425	0.99	
86 Styrene	104	7.917	7.917	0.0	90	118665	0.9817	
87 Bromoform	173	8.095	8.095	0.0	81	13180	0.8244	
88 Isopropylbenzene	105	8.261	8.261	0.0	93	171340	0.9173	
91 Bromobenzene	156	8.534	8.534	0.0	81	52082	0.9898	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	81	40435	0.9844	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	72	15415	1.10	
93 trans-1,4-Dichloro-2-butene	53	8.593	8.605	-0.012	31	5266	0.8879	
94 N-Propylbenzene	120	8.653	8.653	0.001	97	42637	0.8494	
95 2-Chlorotoluene	126	8.724	8.724	0.0	95	45974	0.9550	
96 1,3,5-Trimethylbenzene	105	8.819	8.819	0.0	88	146797	0.9355	
104 4-Chlorotoluene	91	8.830	8.830	0.0	97	151022	0.9688	
97 tert-Butylbenzene	119	9.127	9.127	0.0	85	103936	0.8360	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	94	149019	0.9186	
99 sec-Butylbenzene	105	9.340	9.340	0.0	90	139943	0.8215	
100 1,3-Dichlorobenzene	146	9.447	9.435	0.012	95	99109	1.03	
101 4-Isopropyltoluene	119	9.494	9.494	0.0	90	129196	0.8586	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	90	109608	1.09	
105 n-Butylbenzene	91	9.886	9.886	0.0	94	116313	0.8949	
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	89	100777	1.05	
107 1,2-Dibromo-3-Chloropropane	157	10.657	10.657	0.0	35	6199	0.9613	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
108 1,3,5-Trichlorobenzene	180	10.858	10.858	0.0	95	76933	1.07	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	89	72717	1.07	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	84	35529	0.9400	
111 Naphthalene	128	11.700	11.700	0.0	94	133586	0.9818	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	91	67122	0.7176	
S 137 Trihalomethanes, Total	1				0		3.63	
S 11 1,2-Dichloroethene, Total	96				0		2.01	
S 9 1,3-Dichloropropene, Total	75				0		2.00	
S 114 Xylenes, Total	106				0		2.94	

Report Date: 30-Apr-2012 08:42:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3081.D

Injection Date: 29-Apr-2012 13:17:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

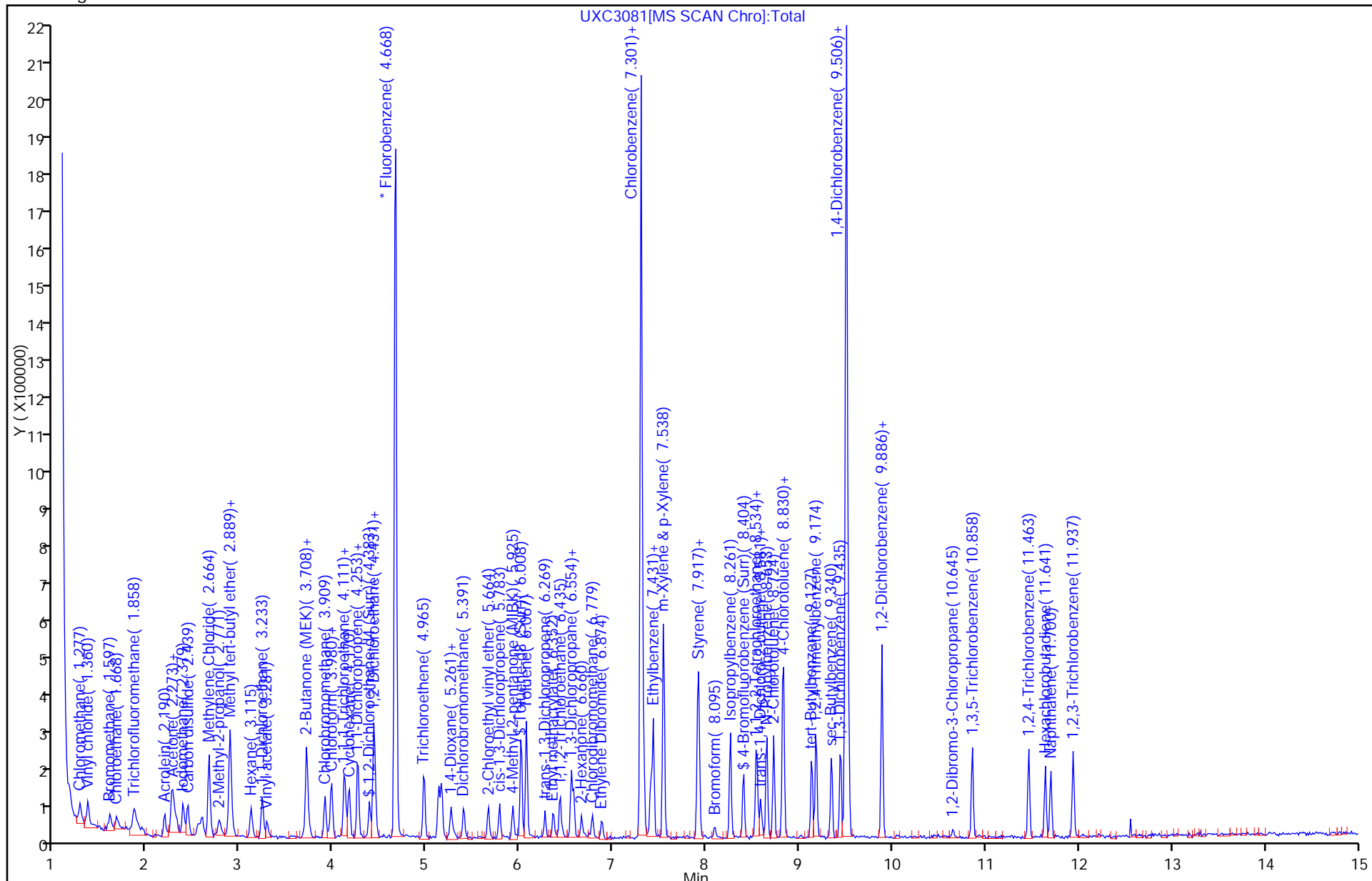
Lims Sample ID: 7

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 13:40 Calibration End Date: 04/29/2012 15:33 Calibration ID: 8423

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-42081/13	UXC3087.D
Level 2	STD2 240-42081/12	UXC3086.D
Level 3	STD3 240-42081/11	UXC3085.D
Level 4	STD4 240-42081/10	UXC3084.D
Level 5	STD5 240-42081/9	UXC3083.D
Level 6	STD6 240-42081/8	UXC3082.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorofluoromethane	0.4685 0.4664	0.4509	0.4970	0.4894	0.5022	Ave		0.4791				4.2		15.0			
Ethyl ether	0.2354 0.2393	0.2292	0.2420	0.2372	0.2447	Ave		0.2380				2.3		15.0			
3-Chloro-1-propene	0.1381 0.1731	0.1289	0.1536	0.1525	0.1658	Ave		0.1520				11.0		15.0			
Isopropyl ether	0.2758 0.2980	0.2629	0.2943	0.2826	0.2941	Ave		0.2846				4.7		15.0			
2-Chloro-1,3-butadiene	0.4994 0.5516	0.4894	0.5318	0.4986	0.5352	Ave		0.5177				4.8		15.0			
Tert-butyl ethyl ether	0.7683 0.8662	0.7309	0.8330	0.7956	0.8354	Ave		0.8049				6.2		15.0			
Ethyl acetate	0.1826 0.1936	0.1596	0.1792	0.1909	0.1947	Ave		0.1834				7.2		15.0			
Propionitrile	0.0210 0.0322	0.0235	0.0329	0.0310	0.0320	Lin1	-0.025	0.0326							0.9990		0.9900
Methacrylonitrile	0.1424 0.1589	0.1418	0.1569	0.1555	0.1591	Ave		0.1524				5.3		15.0			
Isobutyl alcohol	0.0042 0.0053	0.0038	0.0056	0.0058	0.0061	Lin1	-0.034	0.0057							0.9920		0.9900
Tert-amyl methyl ether	0.5893 0.6815	0.5622	0.6460	0.6317	0.6712	Ave		0.6303				7.4		15.0			
n-Heptane	0.0459 0.0531	0.0438	0.0415	0.0458	0.0476	Ave		0.0463				8.5		15.0			
n-Butanol	0.0031 0.0035	0.0024	0.0038	0.0043	0.0049	Qua	-0.161	0.0064	0						0.9930		0.9900
Methyl methacrylate	0.1413 0.1824	0.1618	0.1733	0.1797	0.1894	Ave		0.1713				10.0		15.0			
2-Nitropropane	0.0197 0.0290	0.0201	0.0208	0.0232	0.0275	Lin1	-0.031	0.0282							0.9930		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 13:40 Calibration End Date: 04/29/2012 15:33 Calibration ID: 8423

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.0458 0.0566	0.0444	0.0597	0.0538	0.0535	Ave		0.0523				12.0		15.0			
1,2,3-Trimethylbenzene	2.5293 3.2953	2.5490	2.9199	2.9253	3.2092	Ave		2.9046				11.0		15.0			
2-Methylnaphthalene	1.0538 1.2814	1.1648	1.3453	1.2924	1.4071	Ave		1.2575				10.0		15.0			
n-Butyl acetate	0.2207 0.2977	0.2370	0.2507	0.2849	0.3052	Ave		0.2661				13.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 13:40 Calibration End Date: 04/29/2012 15:33 Calibration ID: 8423

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-42081/13	UXC3087.D
Level 2	STD2 240-42081/12	UXC3086.D
Level 3	STD3 240-42081/11	UXC3085.D
Level 4	STD4 240-42081/10	UXC3084.D
Level 5	STD5 240-42081/9	UXC3083.D
Level 6	STD6 240-42081/8	UXC3082.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorofluoromethane	FB	Ave	72912 2913341	135539	376090	778034	1588807	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	36643 1494383	68894	183089	377131	774103	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	21492 1081269	38744	116193	242350	524380	1.00 40.0	2.00	5.00	10.0	20.0
Isopropyl ether	FB	Ave	214632 9305955	395186	1113313	2246458	4652499	5.00 200	10.0	25.0	50.0	100
2-Chloro-1,3-butadiene	FB	Ave	77730 3445119	147122	402422	792647	1693134	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	119578 5410206	219692	630325	1264791	2642759	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	56853 2418649	95927	271144	607043	1232138	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Lin1	6524 402402	14107	49737	98406	202498	2.00 80.0	4.00	10.0	20.0	40.0
Methacrylonitrile	FB	Ave	22157 992231	42625	118744	247155	503330	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Lin1	13122 658268	22640	85411	183083	388895	20.0 800	40.0	100	200	400
Tert-amyl methyl ether	FB	Ave	91724 4256981	168991	488824	1004249	2123480	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	7147 331789	13161	31424	72811	150460	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	FB	Qua	9595 432366	14527	57290	137332	313173	20.0 800	40.0	100	200	400
Methyl methacrylate	FB	Ave	21985 1139445	48630	131138	285697	599046	1.00 40.0	2.00	5.00	10.0	20.0
2-Nitropropane	FB	Lin1	6119 362561	12066	31469	73710	173729	2.00 80.0	4.00	10.0	20.0	40.0
Cyclohexanone	DCB	Ave	24456 1141727	44259	149717	297721	577437	10.0 400	20.0	50.0	100	200

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-12605-1 Analy Batch No.: 42081

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 13:40 Calibration End Date: 04/29/2012 15:33 Calibration ID: 8423

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,3-Trimethylbenzene	DCB	Ave	135029 6651256	254249	732124	1618739	3465031	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCB	Ave	112512 5172846	232362	674656	1430344	3038474	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	FB	Ave	68698 3719464	142503	379457	905894	1930824	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3082.D
 Lims ID: STD6 A9 L6 Client ID:
 Inject. Date: 29-Apr-2012 13:40:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: 240-0009503-008
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 7
 Lims Batch ID: 42081 Lims Sample ID: 8
 Sublist: chrom-8260_15*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:38 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.656	0.012	93	1561515	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	82	977883	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	504608	10.0	
17 Dichlorofluoromethane	67	1.822	1.822	0.0	83	2913341	38.9	
19 Ethyl ether	59	2.083	2.083	0.0	91	1494383	40.2	
29 3-Chloro-1-propene	76	2.557	2.557	0.0	88	1081269	45.6	
38 Isopropyl ether	87	3.293	3.293	0.0	67	9305955	209.4	
39 2-Chloro-1,3-butadiene	53	3.304	3.304	0.0	82	3445119	42.6	
40 Tert-butyl ethyl ether	59	3.589	3.589	0.0	96	5410206	43.0	
45 Ethyl acetate	43	3.779	3.779	0.0	99	2418649	84.4	
44 Propionitrile	54	3.779	3.779	0.0	43	402402	79.7	
46 Methacrylonitrile	41	3.897	3.897	0.0	95	992231	41.7	
54 Isobutyl alcohol	41	4.372	4.384	-0.012	93	658268	751.0	
57 Tert-amyl methyl ether	73	4.526	4.526	0.0	93	4256981	43.2	
58 n-Heptane	100	4.656	4.656	0.0	94	331789	45.9	
59 n-Butanol	56	4.929	4.929	0.0	92	432366	780.2	
64 Methyl methacrylate	41	5.261	5.261	0.0	94	1139445	42.6	
68 2-Nitropropane	41	5.593	5.593	0.0	96	362561	83.5	
132 n-Butyl acetate	43	6.779	6.779	0.0	98	3719464	89.5	
89 Cyclohexanone	55	8.344	8.344	0.0	94	1141727	432.7	
103 1,2,3-Trimethylbenzene	105	9.578	9.578	0.0	99	6651256	45.4	
113 2-Methylnaphthalene	142	12.815	12.815	0.0	89	5172846	81.5	

Report Date: 30-Apr-2012 08:42:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3082.D

Injection Date: 29-Apr-2012 13:40:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

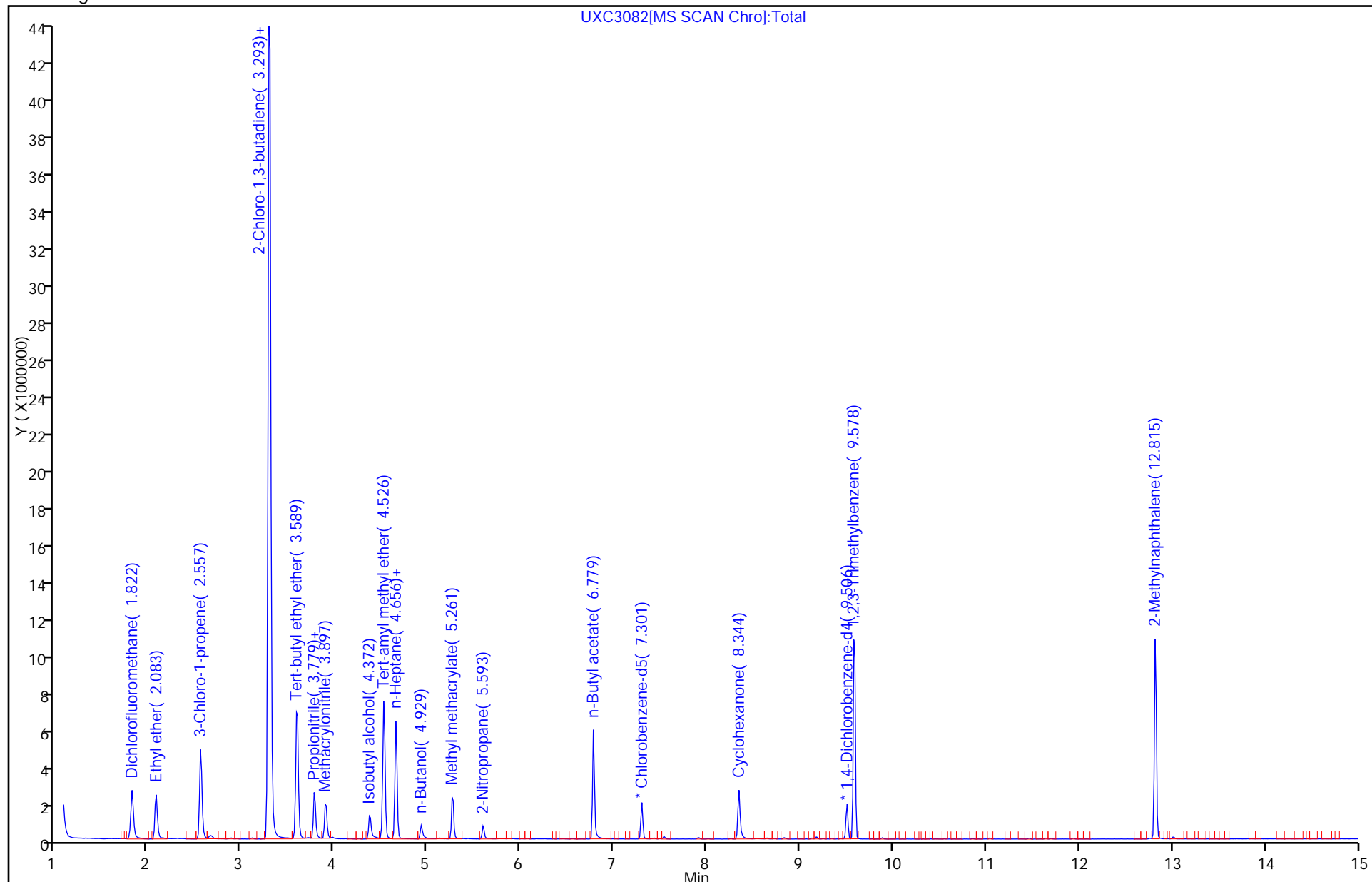
Lims Sample ID: 8

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3083.D
 Lims ID: STD5 A9 L5 Client ID:
 Inject. Date: 29-Apr-2012 14:02:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: 240-0009503-009
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 8
 Lims Batch ID: 42081 Lims Sample ID: 9
 Sublist: chrom-8260_15*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:39 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.656	0.012	98	1581793	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	1042777	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	539866	10.0	
17 Dichlorofluoromethane	67	1.822	1.822	0.0	83	1588807	21.0	
19 Ethyl ether	59	2.083	2.083	0.0	91	774103	20.6	
29 3-Chloro-1-propene	76	2.557	2.557	0.0	89	524380	21.8	
38 Isopropyl ether	87	3.293	3.293	0.0	92	4652499	103.3	
39 2-Chloro-1,3-butadiene	53	3.304	3.304	0.0	87	1693134	20.7	
40 Tert-butyl ethyl ether	59	3.589	3.589	0.0	96	2642759	20.8	
45 Ethyl acetate	43	3.779	3.779	0.0	99	1232138	42.5	
44 Propionitrile	54	3.779	3.779	0.0	42	202498	40.0	
46 Methacrylonitrile	41	3.897	3.897	0.0	95	503330	20.9	
54 Isobutyl alcohol	41	4.372	4.384	-0.012	93	388895	440.5	
57 Tert-amyl methyl ether	73	4.526	4.526	0.0	93	2123480	21.3	
58 n-Heptane	100	4.656	4.656	0.0	93	150460	20.6	
59 n-Butanol	56	4.929	4.929	0.0	91	313173	432.1	
64 Methyl methacrylate	41	5.261	5.261	0.0	92	599046	22.1	
68 2-Nitropropane	41	5.593	5.593	0.0	99	173729	40.1	
132 n-Butyl acetate	43	6.779	6.779	0.0	97	1930824	45.9	
89 Cyclohexanone	55	8.344	8.344	0.0	94	577437	204.6	
103 1,2,3-Trimethylbenzene	105	9.578	9.578	0.0	99	3465031	22.1	
113 2-Methylnaphthalene	142	12.815	12.815	0.0	89	3038474	44.8	

Report Date: 30-Apr-2012 08:42:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3083.D

Injection Date: 29-Apr-2012 14:02:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

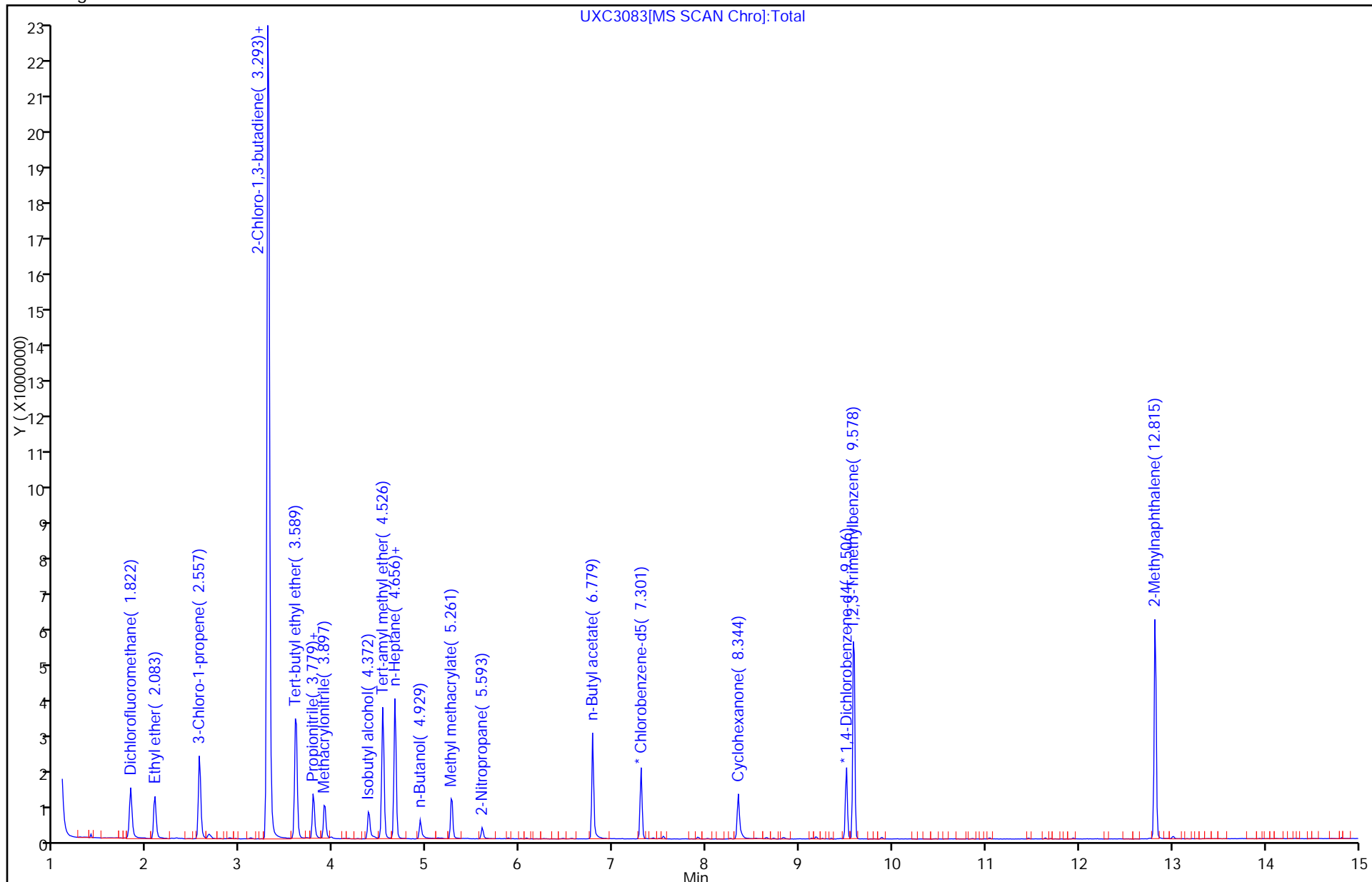
Lims Sample ID: 9

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3084.D
 Lims ID: STD4 A9 L4 Client ID:
 Inject. Date: 29-Apr-2012 14:25:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: 240-0009503-010
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 9
 Lims Batch ID: 42081 Lims Sample ID: 10
 Sublist: chrom-8260_15*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:39 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: quayler

Date: 30-Apr-2012 08:34:03

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.668	0.0	99	1589645	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	84	1052080	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	94	553367	10.0	
17 Dichlorofluoromethane	67	1.822	1.822	0.0	83	778034	10.2	
19 Ethyl ether	59	2.083	2.083	0.0	89	377131	9.97	
29 3-Chloro-1-propene	76	2.557	2.557	0.0	88	242350	10.0	
38 Isopropyl ether	87	3.293	3.293	0.0	95	2246458	49.7	
39 2-Chloro-1,3-butadiene	53	3.304	3.304	0.0	91	792647	9.63	
40 Tert-butyl ethyl ether	59	3.589	3.589	0.0	96	1264791	9.89	
45 Ethyl acetate	43	3.779	3.779	0.0	99	607043	20.8	
44 Propionitrile	54	3.779	3.779	0.0	42	98406	19.7	
46 Methacrylonitrile	41	3.897	3.897	0.0	96	247155	10.2	
54 Isobutyl alcohol	41	4.384	4.384	0.0	91	183083	209.5	
57 Tert-amyl methyl ether	73	4.526	4.526	0.0	92	1004249	10.0	
58 n-Heptane	100	4.656	4.656	0.0	92	72811	9.90	
59 n-Butanol	56	4.929	4.929	0.0	90	137332	175.6	
64 Methyl methacrylate	41	5.261	5.261	0.0	91	285697	10.5	
68 2-Nitropropane	41	5.593	5.593	0.0	96	73710	17.5	
132 n-Butyl acetate	43	6.779	6.779	0.0	98	905894	21.4	
89 Cyclohexanone	55	8.344	8.344	0.0	94	297721	102.9	
103 1,2,3-Trimethylbenzene	105	9.578	9.578	0.0	99	1618739	10.1	
113 2-Methylnaphthalene	142	12.815	12.815	0.0	89	1430344	20.6	

Report Date: 30-Apr-2012 08:42:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3084.D

Injection Date: 29-Apr-2012 14:25:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

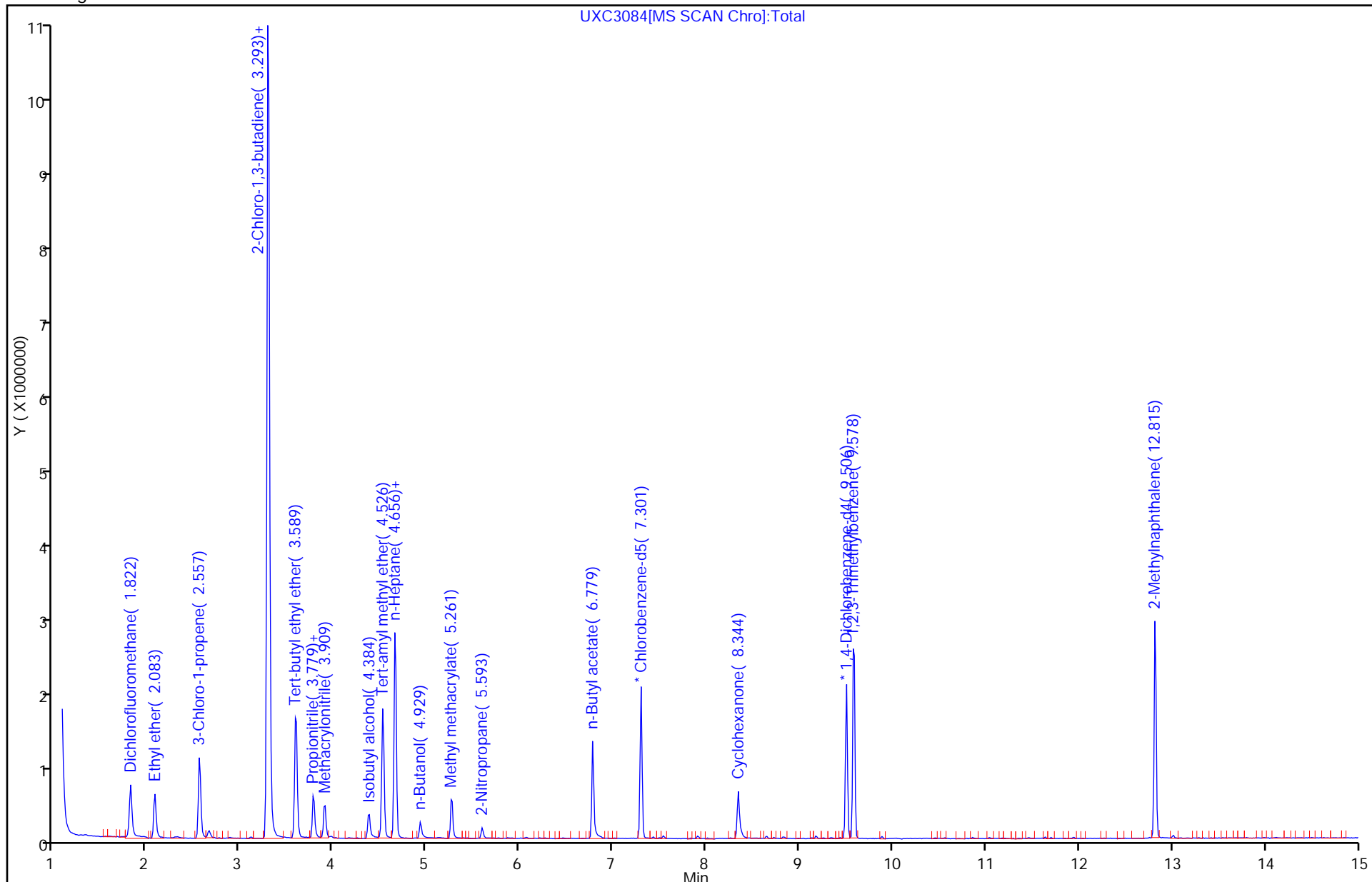
Lims Sample ID: 10

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3085.D
 Lims ID: STD3 A9 L3 Client ID:
 Inject. Date: 29-Apr-2012 14:48:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: 240-0009503-011
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 10
 Lims Batch ID: 42081 Lims Sample ID: 11
 Sublist: chrom-8260_15*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:40 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.668	0.0	99	1513417	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	85	965145	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	501477	10.0	
17 Dichlorofluoromethane	67	1.822	1.822	0.0	82	376090	5.19	
19 Ethyl ether	59	2.083	2.083	0.0	90	183089	5.08	
29 3-Chloro-1-propene	76	2.557	2.557	0.0	88	116193	5.05	
38 Isopropyl ether	87	3.293	3.293	0.0	94	1113313	25.8	
39 2-Chloro-1,3-butadiene	53	3.304	3.304	0.0	92	402422	5.14	
40 Tert-butyl ethyl ether	59	3.589	3.589	0.0	96	630325	5.17	
45 Ethyl acetate	43	3.779	3.779	0.0	96	271144	9.77	
44 Propionitrile	54	3.779	3.779	0.0	37	49737	10.8	
46 Methacrylonitrile	41	3.897	3.897	0.0	95	118744	5.15	
54 Isobutyl alcohol	41	4.372	4.384	-0.012	90	85411	105.7	
57 Tert-amyl methyl ether	73	4.526	4.526	0.0	92	488824	5.12	
58 n-Heptane	100	4.656	4.656	0.0	90	31424	4.49	
59 n-Butanol	56	4.929	4.929	0.0	91	57290	87.9	
64 Methyl methacrylate	41	5.261	5.261	0.0	89	131138	5.06	
68 2-Nitropropane	41	5.593	5.593	0.0	98	31469	8.47	
132 n-Butyl acetate	43	6.779	6.779	0.0	95	379457	9.42	
89 Cyclohexanone	55	8.344	8.344	0.0	95	149717	57.1	
103 1,2,3-Trimethylbenzene	105	9.589	9.578	0.011	97	732124	5.03	
113 2-Methylnaphthalene	142	12.815	12.815	0.0	88	674656	10.7	

Report Date: 30-Apr-2012 08:42:40

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3085.D

Injection Date: 29-Apr-2012 14:48:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

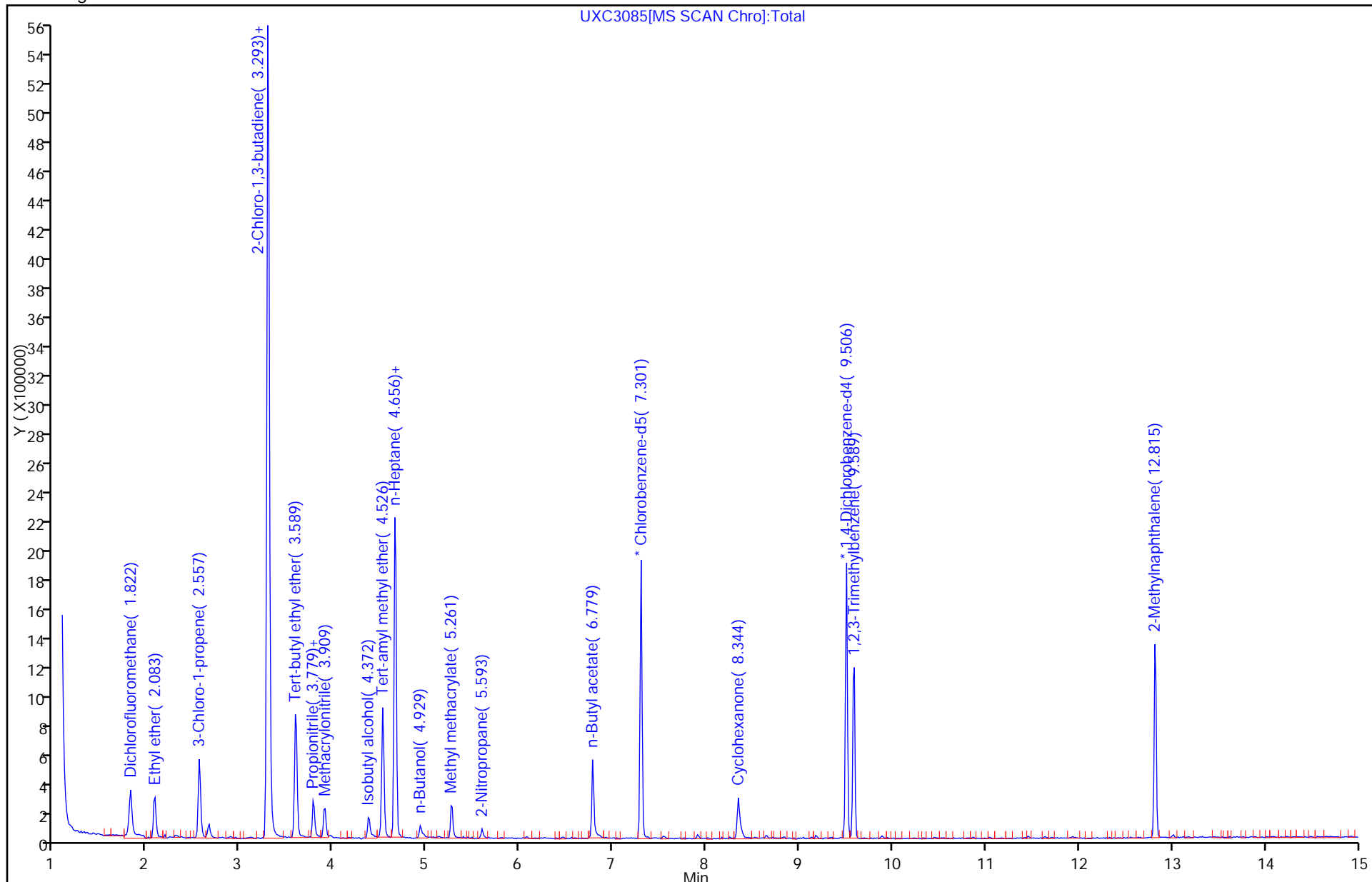
Lims Sample ID: 11

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3086.D
 Lims ID: STD2 A9 L2 Client ID:
 Inject. Date: 29-Apr-2012 15:10:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: 240-0009503-012
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 11
 Lims Batch ID: 42081 Lims Sample ID: 12
 Sublist: chrom-8260_15*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:40 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.668	0.0	99	1502966	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	84	952725	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	498723	10.0	
17 Dichlorofluoromethane	67	1.822	1.822	0.0	81	135539	1.88	
19 Ethyl ether	59	2.083	2.083	0.0	91	68894	1.93	
29 3-Chloro-1-propene	76	2.557	2.557	0.0	80	38744	1.70	
38 Isopropyl ether	87	3.292	3.293	-0.001	93	395186	9.24	
39 2-Chloro-1,3-butadiene	53	3.304	3.304	0.0	83	147122	1.89	
40 Tert-butyl ethyl ether	59	3.589	3.589	0.0	95	219692	1.82	
45 Ethyl acetate	43	3.779	3.779	0.0	96	95927	3.48	
44 Propionitrile	54	3.779	3.779	0.0	14	14107	3.64	
46 Methacrylonitrile	41	3.909	3.897	0.012	92	42625	1.86	
54 Isobutyl alcohol	41	4.372	4.384	-0.012	81	22640	32.6	
57 Tert-amyl methyl ether	73	4.526	4.526	0.0	91	168991	1.78	
58 n-Heptane	100	4.656	4.656	0.0	80	13161	1.89	
59 n-Butanol	56	4.929	4.929	0.0	83	14527	40.9	
64 Methyl methacrylate	41	5.261	5.261	0.0	87	48630	1.89	
68 2-Nitropropane	41	5.593	5.593	0.0	85	12066	3.94	
132 n-Butyl acetate	43	6.779	6.779	0.0	96	142503	3.56	
89 Cyclohexanone	55	8.344	8.344	0.0	85	44259	17.0	
103 1,2,3-Trimethylbenzene	105	9.589	9.578	0.011	97	254249	1.76	
113 2-Methylnaphthalene	142	12.815	12.815	0.0	90	232362	3.71	

Report Date: 30-Apr-2012 08:42:40

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3086.D

Injection Date: 29-Apr-2012 15:10:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

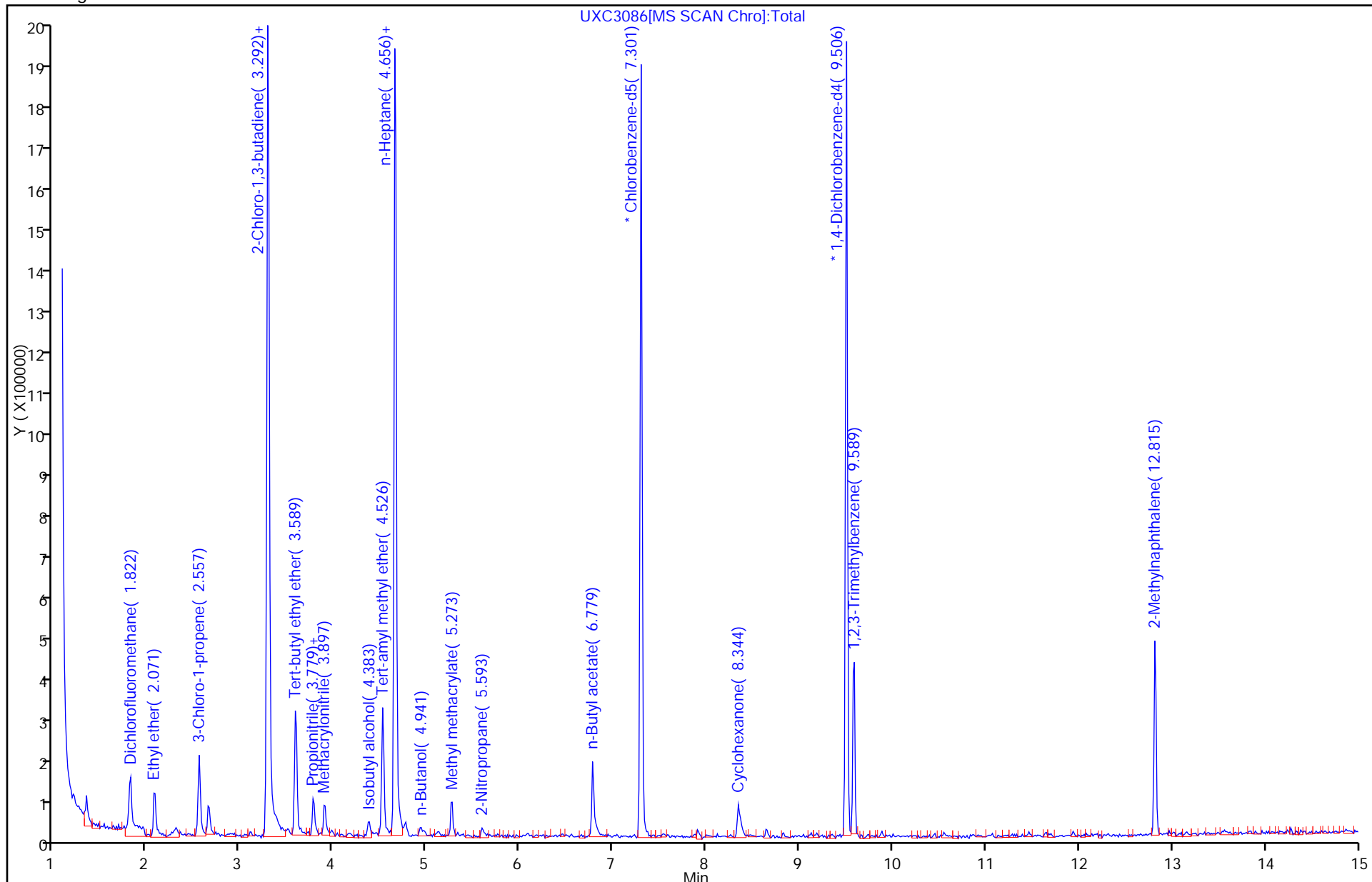
Lims Sample ID: 12

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Lims ID: STD1 A9 L1 Client ID:
 Inject. Date: 29-Apr-2012 15:33:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: 240-0009503-013
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 12
 Lims Batch ID: 42081 Lims Sample ID: 13
 Sublist: chrom-8260_15*sub2
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:42:41 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.668	0.0	99	1556377	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	85	983623	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	533856	10.0	
17 Dichlorofluoromethane	67	1.822	1.822	0.0	78	72912	0.9779	
19 Ethyl ether	59	2.083	2.083	0.0	89	36643	0.9894	
29 3-Chloro-1-propene	76	2.557	2.557	0.0	85	21492	0.9086	
38 Isopropyl ether	87	3.304	3.293	0.011	92	214632	4.85	
39 2-Chloro-1,3-butadiene	53	3.304	3.304	0.0	79	77730	0.9647	
40 Tert-butyl ethyl ether	59	3.601	3.589	0.012	93	119578	0.9546	
45 Ethyl acetate	43	3.779	3.779	0.0	93	56853	1.99	
44 Propionitrile	54	3.779	3.779	0.0	7	6524	2.05	
46 Methacrylonitrile	41	3.909	3.897	0.012	77	22157	0.9340	
54 Isobutyl alcohol	41	4.371	4.384	-0.013	54	13122	20.8	
57 Tert-amyl methyl ether	73	4.526	4.526	0.0	88	91724	0.9350	
58 n-Heptane	100	4.656	4.656	0.0	54	7147	0.99	
59 n-Butanol	56	4.941	4.929	0.012	69	9595	35.3	
64 Methyl methacrylate	41	5.273	5.261	0.012	78	21985	0.8246	
68 2-Nitropropane	41	5.593	5.593	0.0	74	6119	2.49	
132 n-Butyl acetate	43	6.779	6.779	0.0	94	68698	1.66	
89 Cyclohexanone	55	8.344	8.344	0.0	78	24456	8.76	
103 1,2,3-Trimethylbenzene	105	9.589	9.578	0.011	96	135029	0.8708	
113 2-Methylnaphthalene	142	12.815	12.815	0.0	86	112512	1.68	

Report Date: 30-Apr-2012 08:42:41

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D

Injection Date: 29-Apr-2012 15:33:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

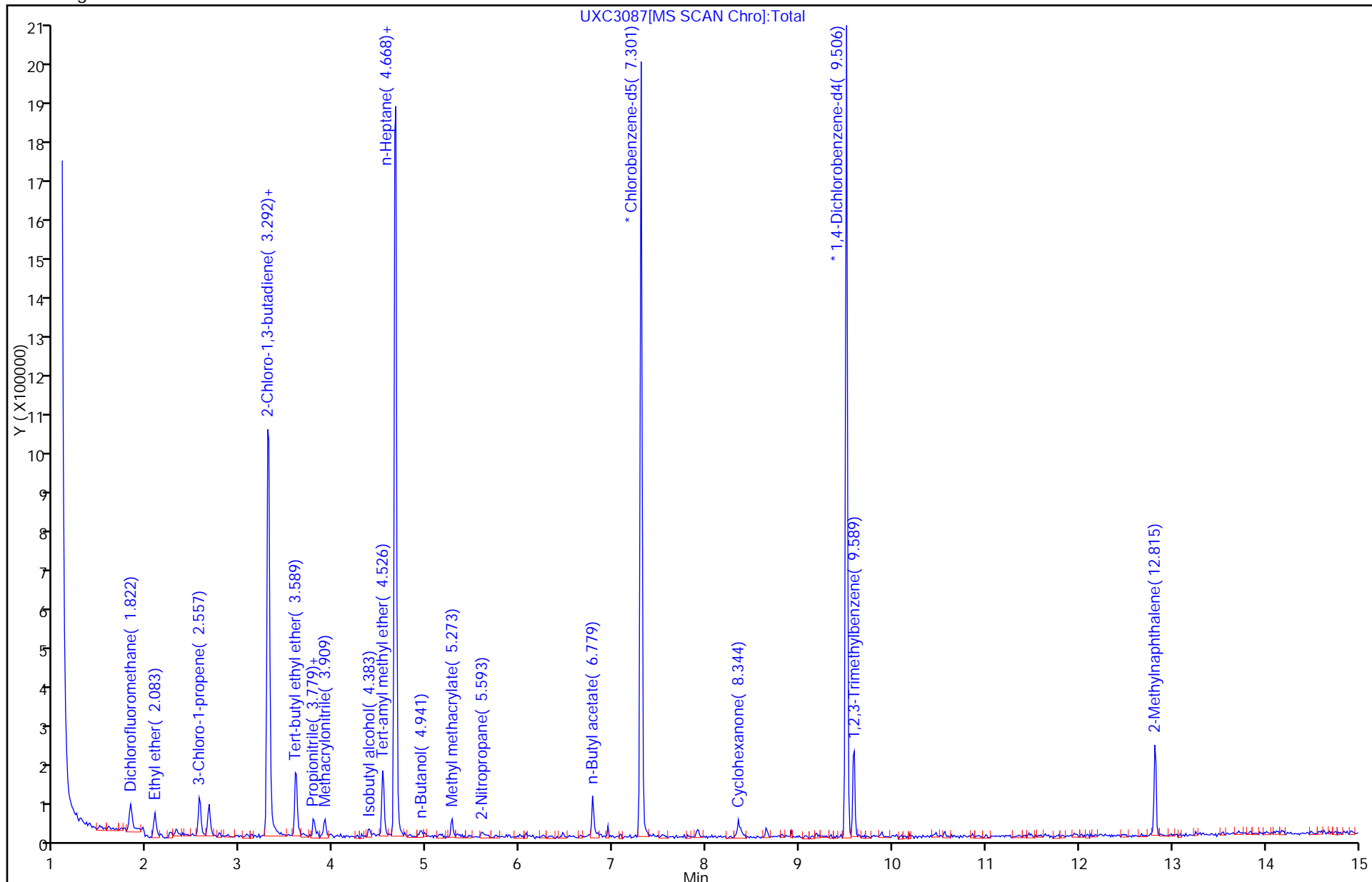
Lims Sample ID: 13

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Lab Sample ID: ICV 240-47806/22 Calibration Date: 06/19/2012 20:44

Instrument ID: A3UX11 Calib Start Date: 06/19/2012 13:56

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5170.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2193	0.2140		9.76	10.0	-2.4	50.0
Chloromethane	Ave	0.3689	0.3829	0.1000	10.4	10.0	3.8	50.0
Vinyl chloride	Ave	0.3502	0.3592		10.3	10.0	2.5	20.0
Bromomethane	Ave	0.1107	0.1330		12.0	10.0	20.2	50.0
Chloroethane	Ave	0.1211	0.1522		12.6	10.0	25.7	50.0
Trichlorofluoromethane	Ave	0.3058	0.3171		10.4	10.0	3.7	50.0
Acrolein	Ave	0.0370	0.0183		14.8	30.0	-50.7*	50.0
1,1-Dichloroethene	Ave	0.2471	0.2583		10.5	10.0	4.5	20.0
Acetone	Lin1		0.0599		19.5	20.0	-2.5	50.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1705	0.1786		10.5	10.0	4.7	50.0
Iodomethane	Ave	0.3414	0.4092		12.0	10.0	19.9	50.0
Carbon disulfide	Ave	0.8298	0.8210		9.89	10.0	-1.1	50.0
Acetonitrile	Ave	0.0250	0.0243		29.2	30.0	-2.8	50.0
Methyl acetate	Ave	0.1703	0.1819		10.7	10.0	6.8	50.0
Methylene Chloride	Lin1		0.2985		10.5	10.0	5.0	50.0
2-Methyl-2-propanol	Ave	0.0192	0.0176		183	200	-8.4	50.0
Acrylonitrile	Ave	0.0882	0.0872		29.7	30.0	-1.2	50.0
Methyl tert-butyl ether	Ave	0.7903	0.7848		9.93	10.0	-0.7	50.0
trans-1,2-Dichloroethene	Ave	0.2847	0.2848		10.0	10.0	0.0	50.0
Hexane	Ave	0.0640	0.0536		8.37	10.0	-16.3	20.0
1,1-Dichloroethane	Ave	0.4733	0.4838	0.1000	10.2	10.0	2.2	50.0
Vinyl acetate	Ave	0.0566	0.0541		9.56	10.0	-4.4	50.0
2-Butanone (MEK)	Ave	0.0970	0.0901		18.6	20.0	-7.2	50.0
2,2-Dichloropropane	Ave	0.2808	0.2620		9.33	10.0	-6.7	50.0
cis-1,2-Dichloroethene	Ave	0.3122	0.3099		9.93	10.0	-0.7	50.0
Bromochloromethane	Ave	0.1462	0.1457		9.96	10.0	-0.4	50.0
Tetrahydrofuran	Ave	0.0649	0.0613		9.45	10.0	-5.5	50.0
Chloroform	Ave	0.4817	0.4690		9.74	10.0	-2.6	20.0
1,1,1-Trichloroethane	Ave	0.3730	0.3719		9.97	10.0	-0.3	50.0
Cyclohexane	Ave	0.4268	0.3686		8.64	10.0	-13.6	50.0
1,1-Dichloropropene	Ave	0.3899	0.3719		9.54	10.0	-4.6	50.0
Carbon tetrachloride	Ave	0.3178	0.3138		9.87	10.0	-1.3	50.0
1,2-Dichloroethane	Ave	0.3562	0.3606		10.1	10.0	1.2	50.0
Benzene	Ave	1.183	1.178		9.96	10.0	-0.4	50.0
Trichloroethene	Ave	0.3055	0.3050		9.99	10.0	-0.1	50.0
1,2-Dichloropropane	Ave	0.2795	0.2787		9.97	10.0	-0.3	20.0
Methylcyclohexane	Ave	0.4249	0.3361		7.91	10.0	-20.9	50.0
Dibromomethane	Ave	0.1563	0.1662		10.6	10.0	6.4	50.0
Bromodichloromethane	Ave	0.3538	0.3626		10.2	10.0	2.5	50.0
2-Chloroethyl vinyl ether	Ave	0.1684	0.1622		9.63	10.0	-3.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Lab Sample ID: ICV 240-47806/22 Calibration Date: 06/19/2012 20:44

Instrument ID: A3UX11 Calib Start Date: 06/19/2012 13:56

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5170.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
cis-1,3-Dichloropropene	Ave	0.4589	0.4435		9.67	10.0	-3.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2026	0.1994		19.7	20.0	-1.6	50.0
Toluene	Ave	1.788	1.732		9.68	10.0	-3.2	20.0
trans-1,3-Dichloropropene	Ave	0.5575	0.5338		9.58	10.0	-4.2	50.0
1,1,2-Trichloroethane	Ave	0.3237	0.3315		10.2	10.0	2.4	50.0
1,3-Dichloropropane	Ave	0.5888	0.5821		9.89	10.0	-1.1	50.0
Tetrachloroethene	Ave	0.3358	0.3142		9.36	10.0	-6.4	50.0
2-Hexanone	Ave	0.1826	0.1773		19.4	20.0	-2.9	50.0
Dibromochloromethane	Ave	0.3533	0.3417		9.67	10.0	-3.3	50.0
1,2-Dibromoethane	Ave	0.3304	0.3290		9.95	10.0	-0.5	50.0
Chlorobenzene	Ave	1.086	1.069	0.3000	9.85	10.0	-1.5	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3588	0.3674		10.2	10.0	2.4	50.0
Ethylbenzene	Ave	0.5952	0.5732		9.63	10.0	-3.7	20.0
m-Xylene & p-Xylene	Ave	0.7317	0.7087		19.4	20.0	-3.1	50.0
o-Xylene	Ave	0.6880	0.6730		9.78	10.0	-2.2	50.0
Styrene	Ave	1.156	1.157		10.0	10.0	0.0	50.0
Bromoform	Ave	0.1762	0.1737	0.1000	9.86	10.0	-1.4	50.0
Isopropylbenzene	Ave	1.653	1.613		9.76	10.0	-2.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7997	0.7568	0.3000	9.46	10.0	-5.4	50.0
Bromobenzene	Ave	1.163	1.150		9.88	10.0	-1.2	50.0
1,2,3-Trichloropropane	Ave	0.2829	0.2828		10.0	10.0	-0.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1379	0.1284		18.6	20.0	-6.9	50.0
N-Propylbenzene	Ave	1.243	1.209		9.73	10.0	-2.7	50.0
2-Chlorotoluene	Ave	1.030	0.9918		9.63	10.0	-3.7	50.0
1,3,5-Trimethylbenzene	Ave	3.290	3.248		9.87	10.0	-1.3	50.0
4-Chlorotoluene	Ave	1.003	0.9464		9.43	10.0	-5.7	50.0
tert-Butylbenzene	Ave	2.820	2.680		9.51	10.0	-4.9	50.0
1,2,4-Trimethylbenzene	Ave	2.979	2.958		9.93	10.0	-0.7	50.0
sec-Butylbenzene	Ave	3.501	3.273		9.35	10.0	-6.5	50.0
1,3-Dichlorobenzene	Ave	1.572	1.492		9.49	10.0	-5.1	50.0
p-Isopropyltoluene	Ave	2.658	2.581		9.71	10.0	-2.9	50.0
1,4-Dichlorobenzene	Ave	1.613	1.567		9.71	10.0	-2.9	50.0
n-Butylbenzene	Ave	2.121	1.923		9.07	10.0	-9.3	50.0
1,2-Dichlorobenzene	Ave	1.511	1.468		9.72	10.0	-2.8	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1479	0.1493		10.1	10.0	0.9	50.0
1,2,4-Trichlorobenzene	Ave	0.9348	0.8561		9.16	10.0	-8.4	50.0
Hexachlorobutadiene	Ave	0.4014	0.3257		8.11	10.0	-18.9	50.0
Naphthalene	Ave	2.428	2.232		9.19	10.0	-8.1	50.0
1,2,3-Trichlorobenzene	Ave	0.8031	0.7733		9.63	10.0	-3.7	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5170.D
 Lims ID: ICV Client ID:
 Inject. Date: 19-Jun-2012 20:44:30 Dil. Factor: 1.0000
 Sample Type: ICV
 Sample ID: 240-0010834-022
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 21
 Lims Batch ID: 47806 Lims Sample ID: 22
 Sublist:
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:24:56 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1708401	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	83	1248350	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	84	395805	10.0	
8 Dichlorodifluoromethane	85	1.565	1.553	0.012	92	365552	9.76	
9 Chloromethane	50	1.684	1.684	0.0	100	654096	10.4	
10 Vinyl chloride	62	1.778	1.778	0.0	80	613569	10.3	
11 Bromomethane	94	2.062	2.062	0.0	90	227288	12.0	
12 Chloroethane	64	2.157	2.157	0.0	93	260026	12.6	
14 Trichlorofluoromethane	101	2.358	2.358	0.0	86	541760	10.4	
15 Ethyl ether	59	2.547	2.547	0.0	89	385959	9.85	
16 Acrolein	56	2.642	2.642	0.0	88	93595	14.8	
19 1,1-Dichloroethene	96	2.737	2.737	0.0	97	441316	10.5	
17 Acetone	43	2.760	2.760	0.0	99	204553	19.5	
18 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.784	2.796	-0.012	82	305091	10.5	
21 Iodomethane	142	2.867	2.867	0.0	96	699141	12.0	
23 Carbon disulfide	76	2.938	2.938	0.0	98	1402654	9.89	
24 Acetonitrile	41	2.985	2.985	0.0	95	124482	29.2	
25 Methyl acetate	43	3.032	3.033	0.0	89	310794	10.7	
26 Methylene Chloride	84	3.127	3.127	0.0	78	510031	10.5	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	99	602453	183.2	
28 Acrylonitrile	53	3.305	3.317	-0.011	96	446665	29.7	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	87	1340667	9.93	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	63	486493	10.0	
31 Hexane	86	3.577	3.577	0.0	91	91488	8.37	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	96	826569	10.2	
33 Vinyl acetate	86	3.719	3.719	0.0	97	92441	9.56	
34 Isopropyl ether	87	3.742	3.743	-0.001	94	457148	9.83	
38 2-Butanone (MEK)	43	4.157	4.157	0.0	57	307669	18.6	
40 cis-1,2-Dichloroethene	96	4.168	4.168	0.0	68	529375	9.93	
39 2,2-Dichloropropane	77	4.168	4.168	0.0	71	447590	9.33	
43 Chlorobromomethane	128	4.358	4.358	0.0	92	248863	9.96	
44 Tetrahydrofuran	42	4.405	4.405	0.0	84	104763	9.45	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
45 Chloroform	83	4.417	4.417	0.0	70	801161	9.74	
46 1,1,1-Trichloroethane	97	4.594	4.594	0.0	89	635299	9.97	
47 Cyclohexane	56	4.654	4.642	0.012	86	629696	8.64	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	94	635310	9.54	
49 Carbon tetrachloride	117	4.736	4.736	0.0	72	536011	9.87	
50 Isobutyl alcohol	41	4.772	4.772	0.0	89	508846	409.8	
52 Benzene	78	4.890	4.890	0.0	95	2013166	9.96	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	46	616062	10.1	
56 Trichloroethene	130	5.435	5.435	0.0	92	521082	9.99	
58 Methylcyclohexane	83	5.612	5.612	0.0	86	574152	7.91	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	91	476180	9.97	
61 Dibromomethane	93	5.719	5.719	0.0	85	284000	10.6	
63 Dichlorobromomethane	83	5.837	5.837	0.0	93	619501	10.2	
65 2-Chloroethyl vinyl ether	63	6.085	6.085	0.0	91	277055	9.63	
66 cis-1,3-Dichloropropene	75	6.227	6.227	0.0	92	757732	9.67	
67 4-Methyl-2-pentanone (MIBK)	43	6.358	6.346	0.012	95	681457	19.7	
68 Toluene	91	6.535	6.535	0.0	98	2161611	9.68	
69 trans-1,3-Dichloropropene	75	6.713	6.713	0.0	88	666379	9.58	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	84	413789	10.2	
72 Tetrachloroethene	164	7.032	7.032	0.0	72	392269	9.36	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	88	726678	9.89	
74 2-Hexanone	43	7.091	7.091	0.0	94	442746	19.4	
76 Chlorodibromomethane	129	7.245	7.245	0.0	88	426550	9.67	
77 Ethylene Dibromide	107	7.351	7.352	-0.001	98	410651	9.95	
79 Chlorobenzene	112	7.813	7.813	0.0	93	1335004	9.85	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	88	458647	10.2	
81 Ethylbenzene	106	7.908	7.908	0.0	98	715500	9.63	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	1769514	19.4	
83 o-Xylene	106	8.393	8.393	0.0	92	840188	9.78	
84 Styrene	104	8.405	8.405	0.0	90	1444242	10.0	
85 Bromoform	173	8.582	8.582	0.0	95	216835	9.86	
86 Isopropylbenzene	105	8.748	8.748	0.0	95	2013961	9.76	
87 Cyclohexanone	55	8.831	8.831	0.0	84	153095	70.6	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	88	299548	9.46	
89 Bromobenzene	156	9.044	9.044	0.0	87	455003	9.88	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	73	111917	10.0	
91 trans-1,4-Dichloro-2-butene	53	9.079	9.079	0.0	69	101631	18.6	
92 N-Propylbenzene	120	9.150	9.150	0.0	97	478402	9.73	
93 2-Chlorotoluene	126	9.233	9.233	0.0	94	392566	9.63	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	92	1285554	9.87	
95 4-Chlorotoluene	126	9.339	9.339	0.0	97	374583	9.43	
96 tert-Butylbenzene	119	9.635	9.635	0.0	81	1060924	9.51	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	72	1170650	9.93	
98 sec-Butylbenzene	105	9.860	9.860	0.0	93	1295493	9.35	
99 1,3-Dichlorobenzene	146	9.967	9.967	0.0	97	590597	9.49	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	90	1021684	9.71	
101 1,4-Dichlorobenzene	146	10.049	10.049	0.0	92	620297	9.71	
102 1,2,3-Trimethylbenzene	105	10.109	10.109	0.0	95	1095250	9.90	
103 n-Butylbenzene	91	10.404	10.404	0.0	95	761101	9.07	
104 1,2-Dichlorobenzene	146	10.416	10.416	0.0	96	581198	9.72	
105 1,2-Dibromo-3-Chloropropane	157	11.185	11.185	0.0	73	59083	10.1	
107 1,2,4-Trichlorobenzene	180	12.025	12.026	-0.001	94	338855	9.16	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
108 Hexachlorobutadiene	225	12.203	12.203	0.0	94	128905	8.11	
109 Naphthalene	128	12.274	12.274	0.0	97	883546	9.19	
110 1,2,3-Trichlorobenzene	180	12.522	12.523	0.0	96	306082	9.63	
S 138 Trihalomethanes, Total	1				0		39.5	
S 112 1,2-Dichloroethene, Total	96				0		19.9	
S 114 Xylenes, Total	106				0		29.2	

Report Date: 20-Jun-2012 09:27:44

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5170.D

Injection Date: 19-Jun-2012 20:44:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

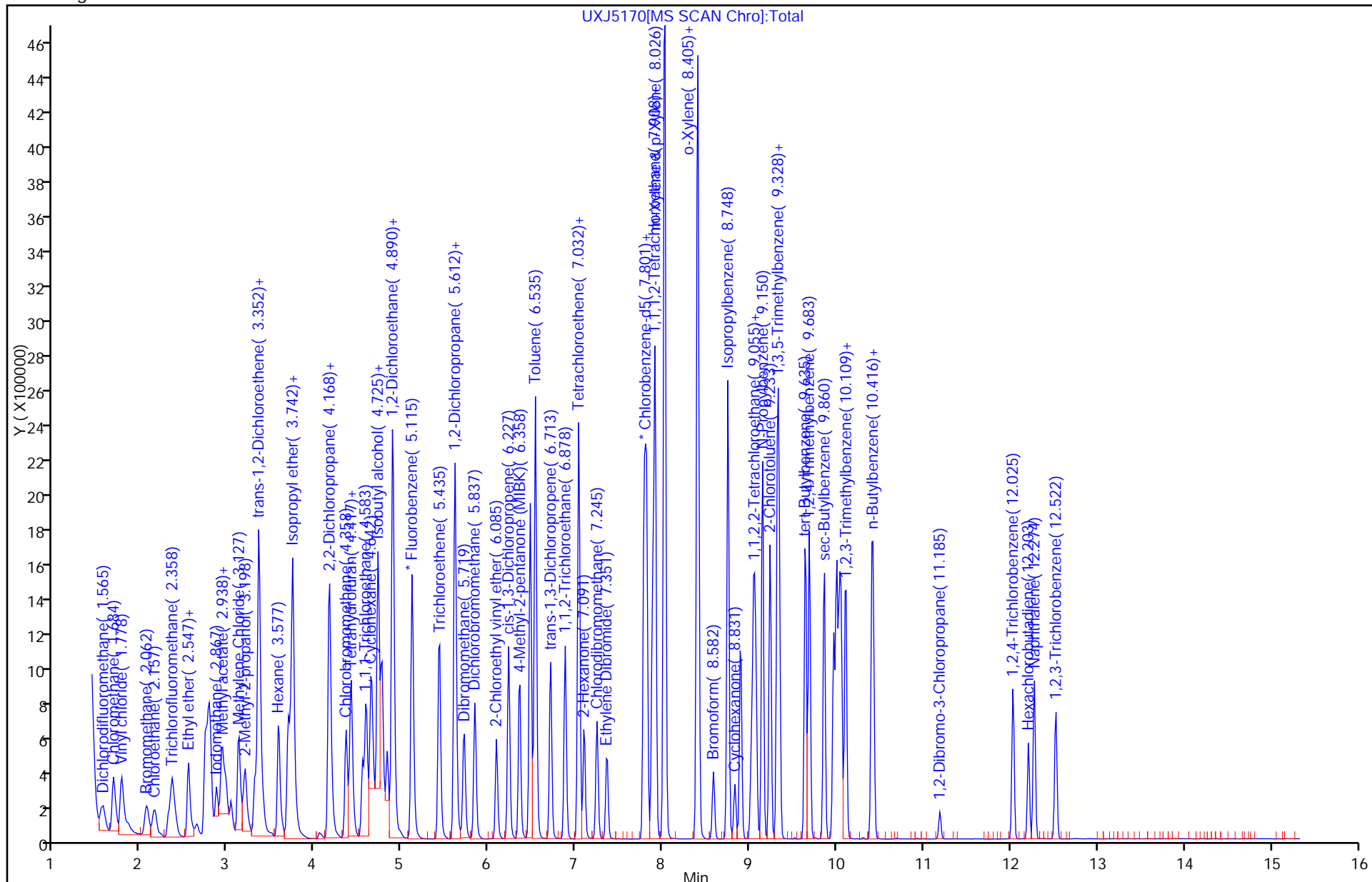
Lims Sample ID: 22

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICV 240-47806/22 Calibration Date: 06/19/2012 20:44
 Instrument ID: A3UX11 Calib Start Date: 06/19/2012 16:12
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/19/2012 18:05
 Lab File ID: UXJ5170.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl ether	Ave	0.2293	0.2259		9.85	10.0	-1.5	50.0
Isopropyl ether	Ave	0.2723	0.2676		9.83	10.0	-1.7	50.0
Isobutyl alcohol	Ave	0.0099	0.0082		410	500	-18.0	50.0
Cyclohexanone	Ave	0.0548	0.0193		70.6	200	-64.7*	50.0
1,2,3-Trimethylbenzene	Ave	2.796	2.767		9.90	10.0	-1.0	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5170.D
 Lims ID: ICV Client ID:
 Inject. Date: 19-Jun-2012 20:44:30 Dil. Factor: 1.0000
 Sample Type: ICV
 Sample ID: 240-0010834-022
 Misc. Info.: J20619A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 21
 Lims Batch ID: 47806 Lims Sample ID: 22
 Sublist:
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
 Last Update: 20-Jun-2012 09:24:56 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1708401	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	83	1248350	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	84	395805	10.0	
8 Dichlorodifluoromethane	85	1.565	1.553	0.012	92	365552	9.76	
9 Chloromethane	50	1.684	1.684	0.0	100	654096	10.4	
10 Vinyl chloride	62	1.778	1.778	0.0	80	613569	10.3	
11 Bromomethane	94	2.062	2.062	0.0	90	227288	12.0	
12 Chloroethane	64	2.157	2.157	0.0	93	260026	12.6	
14 Trichlorofluoromethane	101	2.358	2.358	0.0	86	541760	10.4	
15 Ethyl ether	59	2.547	2.547	0.0	89	385959	9.85	
16 Acrolein	56	2.642	2.642	0.0	88	93595	14.8	
19 1,1-Dichloroethene	96	2.737	2.737	0.0	97	441316	10.5	
17 Acetone	43	2.760	2.760	0.0	99	204553	19.5	
18 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.784	2.796	-0.012	82	305091	10.5	
21 Iodomethane	142	2.867	2.867	0.0	96	699141	12.0	
23 Carbon disulfide	76	2.938	2.938	0.0	98	1402654	9.89	
24 Acetonitrile	41	2.985	2.985	0.0	95	124482	29.2	
25 Methyl acetate	43	3.032	3.033	0.0	89	310794	10.7	
26 Methylene Chloride	84	3.127	3.127	0.0	78	510031	10.5	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	99	602453	183.2	
28 Acrylonitrile	53	3.305	3.317	-0.011	96	446665	29.7	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	87	1340667	9.93	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	63	486493	10.0	
31 Hexane	86	3.577	3.577	0.0	91	91488	8.37	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	96	826569	10.2	
33 Vinyl acetate	86	3.719	3.719	0.0	97	92441	9.56	
34 Isopropyl ether	87	3.742	3.743	-0.001	94	457148	9.83	
38 2-Butanone (MEK)	43	4.157	4.157	0.0	57	307669	18.6	
40 cis-1,2-Dichloroethene	96	4.168	4.168	0.0	68	529375	9.93	
39 2,2-Dichloropropane	77	4.168	4.168	0.0	71	447590	9.33	
43 Chlorobromomethane	128	4.358	4.358	0.0	92	248863	9.96	
44 Tetrahydrofuran	42	4.405	4.405	0.0	84	104763	9.45	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
45 Chloroform	83	4.417	4.417	0.0	70	801161	9.74	
46 1,1,1-Trichloroethane	97	4.594	4.594	0.0	89	635299	9.97	
47 Cyclohexane	56	4.654	4.642	0.012	86	629696	8.64	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	94	635310	9.54	
49 Carbon tetrachloride	117	4.736	4.736	0.0	72	536011	9.87	
50 Isobutyl alcohol	41	4.772	4.772	0.0	89	508846	409.8	
52 Benzene	78	4.890	4.890	0.0	95	2013166	9.96	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	46	616062	10.1	
56 Trichloroethene	130	5.435	5.435	0.0	92	521082	9.99	
58 Methylcyclohexane	83	5.612	5.612	0.0	86	574152	7.91	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	91	476180	9.97	
61 Dibromomethane	93	5.719	5.719	0.0	85	284000	10.6	
63 Dichlorobromomethane	83	5.837	5.837	0.0	93	619501	10.2	
65 2-Chloroethyl vinyl ether	63	6.085	6.085	0.0	91	277055	9.63	
66 cis-1,3-Dichloropropene	75	6.227	6.227	0.0	92	757732	9.67	
67 4-Methyl-2-pentanone (MIBK)	43	6.358	6.346	0.012	95	681457	19.7	
68 Toluene	91	6.535	6.535	0.0	98	2161611	9.68	
69 trans-1,3-Dichloropropene	75	6.713	6.713	0.0	88	666379	9.58	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	84	413789	10.2	
72 Tetrachloroethene	164	7.032	7.032	0.0	72	392269	9.36	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	88	726678	9.89	
74 2-Hexanone	43	7.091	7.091	0.0	94	442746	19.4	
76 Chlorodibromomethane	129	7.245	7.245	0.0	88	426550	9.67	
77 Ethylene Dibromide	107	7.351	7.352	-0.001	98	410651	9.95	
79 Chlorobenzene	112	7.813	7.813	0.0	93	1335004	9.85	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	88	458647	10.2	
81 Ethylbenzene	106	7.908	7.908	0.0	98	715500	9.63	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	1769514	19.4	
83 o-Xylene	106	8.393	8.393	0.0	92	840188	9.78	
84 Styrene	104	8.405	8.405	0.0	90	1444242	10.0	
85 Bromoform	173	8.582	8.582	0.0	95	216835	9.86	
86 Isopropylbenzene	105	8.748	8.748	0.0	95	2013961	9.76	
87 Cyclohexanone	55	8.831	8.831	0.0	84	153095	70.6	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	88	299548	9.46	
89 Bromobenzene	156	9.044	9.044	0.0	87	455003	9.88	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	73	111917	10.0	
91 trans-1,4-Dichloro-2-butene	53	9.079	9.079	0.0	69	101631	18.6	
92 N-Propylbenzene	120	9.150	9.150	0.0	97	478402	9.73	
93 2-Chlorotoluene	126	9.233	9.233	0.0	94	392566	9.63	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	92	1285554	9.87	
95 4-Chlorotoluene	126	9.339	9.339	0.0	97	374583	9.43	
96 tert-Butylbenzene	119	9.635	9.635	0.0	81	1060924	9.51	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	72	1170650	9.93	
98 sec-Butylbenzene	105	9.860	9.860	0.0	93	1295493	9.35	
99 1,3-Dichlorobenzene	146	9.967	9.967	0.0	97	590597	9.49	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	90	1021684	9.71	
101 1,4-Dichlorobenzene	146	10.049	10.049	0.0	92	620297	9.71	
102 1,2,3-Trimethylbenzene	105	10.109	10.109	0.0	95	1095250	9.90	
103 n-Butylbenzene	91	10.404	10.404	0.0	95	761101	9.07	
104 1,2-Dichlorobenzene	146	10.416	10.416	0.0	96	581198	9.72	
105 1,2-Dibromo-3-Chloropropane	157	11.185	11.185	0.0	73	59083	10.1	
107 1,2,4-Trichlorobenzene	180	12.025	12.026	-0.001	94	338855	9.16	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
108 Hexachlorobutadiene	225	12.203	12.203	0.0	94	128905	8.11	
109 Naphthalene	128	12.274	12.274	0.0	97	883546	9.19	
110 1,2,3-Trichlorobenzene	180	12.522	12.523	0.0	96	306082	9.63	
S 138 Trihalomethanes, Total	1				0		39.5	
S 112 1,2-Dichloroethene, Total	96				0		19.9	
S 114 Xylenes, Total	106				0		29.2	

Report Date: 20-Jun-2012 09:27:44

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5170.D

Injection Date: 19-Jun-2012 20:44:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

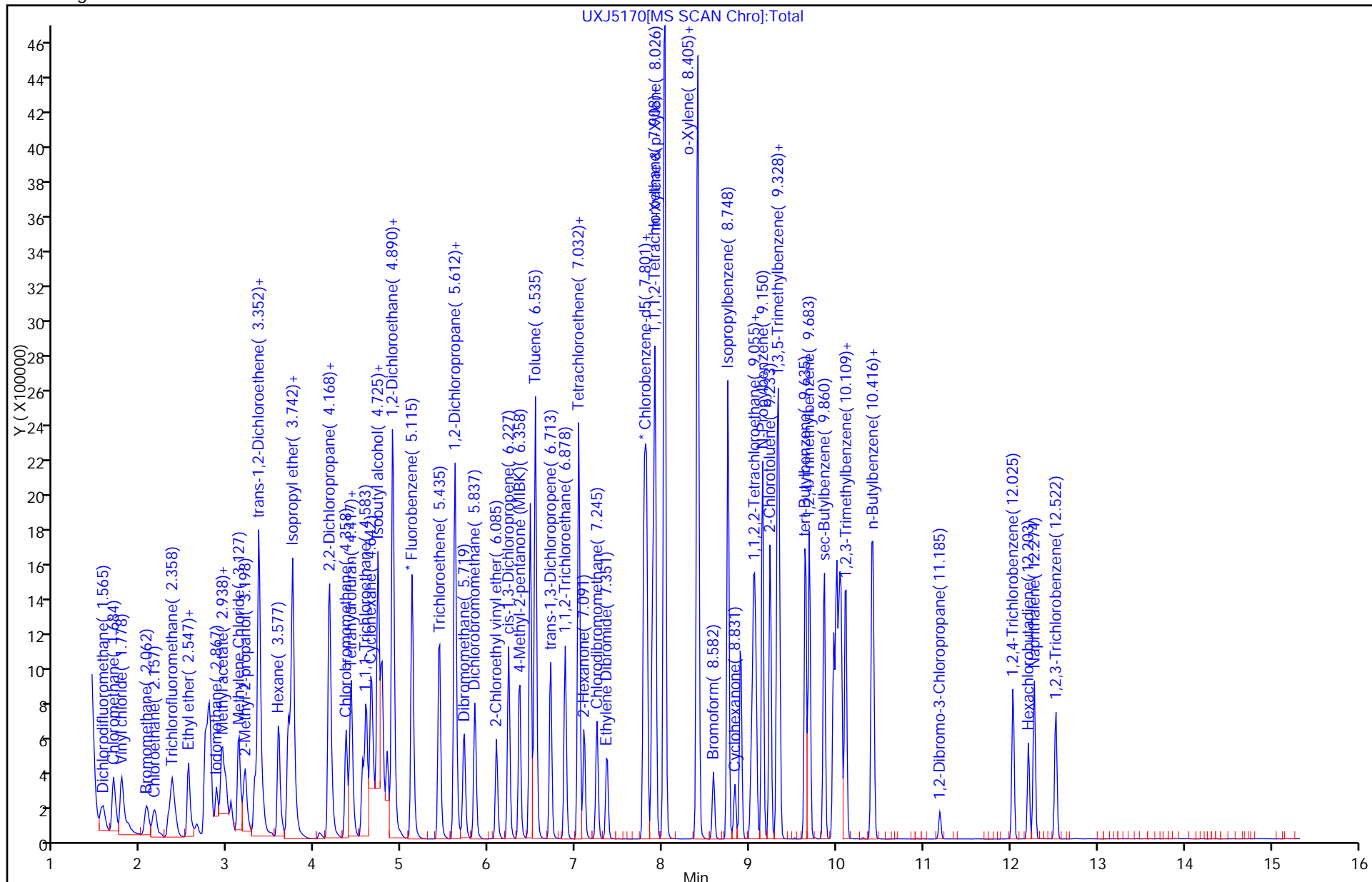
Lims Sample ID: 22

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Lab Sample ID: CCVIS 240-49859/2 Calibration Date: 07/05/2012 10:13

Instrument ID: A3UX11 Calib Start Date: 06/19/2012 13:56

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5590.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2193	0.2511		11.4	10.0	14.5	50.0
Chloromethane	Ave	0.3689	0.3705	0.1000	10.0	10.0	0.4	50.0
Vinyl chloride	Ave	0.3502	0.3645		10.4	10.0	4.1	20.0
Bromomethane	Ave	0.1107	0.1452		13.1	10.0	31.1	50.0
Chloroethane	Ave	0.1211	0.1351		11.2	10.0	11.6	50.0
Trichlorofluoromethane	Ave	0.3058	0.3141		10.3	10.0	2.7	50.0
Acrolein	Ave	0.0370	0.0250		67.4	100	-32.6	50.0
1,1-Dichloroethene	Ave	0.2471	0.2431		9.84	10.0	-1.6	20.0
Acetone	Lin1		0.1024		34.8	20.0	74.0*	50.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1705	0.1752		10.3	10.0	2.8	50.0
Iodomethane	Ave	0.3414	0.3494		10.2	10.0	2.3	50.0
Carbon disulfide	Ave	0.8298	0.7666		9.24	10.0	-7.6	50.0
Acetonitrile	Ave	0.0250	0.0264		106	100	5.8	50.0
Methyl acetate	Ave	0.1703	0.1666		19.6	20.0	-2.2	50.0
Methylene Chloride	Lin1		0.4318		15.6	10.0	56.0*	50.0
2-Methyl-2-propanol	Ave	0.0192	0.0175		182	200	-8.9	50.0
Acrylonitrile	Ave	0.0882	0.0843		19.1	20.0	-4.4	50.0
Methyl tert-butyl ether	Ave	0.7903	0.7479		9.46	10.0	-5.4	50.0
trans-1,2-Dichloroethene	Ave	0.2847	0.2797		9.83	10.0	-1.7	50.0
Hexane	Ave	0.0640	0.0625		9.76	10.0	-2.4	20.0
1,1-Dichloroethane	Ave	0.4733	0.4637	0.1000	9.80	10.0	-2.0	50.0
Vinyl acetate	Ave	0.0566	0.0451		7.97	10.0	-20.3	50.0
2-Butanone (MEK)	Ave	0.0970	0.0944		19.5	20.0	-2.7	50.0
2,2-Dichloropropane	Ave	0.2808	0.2235		7.96	10.0	-20.4	50.0
cis-1,2-Dichloroethene	Ave	0.3122	0.3030		9.71	10.0	-2.9	50.0
Bromochloromethane	Ave	0.1462	0.1475		10.1	10.0	0.8	50.0
Tetrahydrofuran	Ave	0.0649	0.0597		9.19	10.0	-8.1	50.0
Chloroform	Ave	0.4817	0.4646		9.65	10.0	-3.5	20.0
1,1,1-Trichloroethane	Ave	0.3730	0.3178		8.52	10.0	-14.8	50.0
Cyclohexane	Ave	0.4268	0.3928		9.20	10.0	-8.0	50.0
1,1-Dichloropropene	Ave	0.3899	0.3751		9.62	10.0	-3.8	50.0
Carbon tetrachloride	Ave	0.3178	0.2911		9.16	10.0	-8.4	50.0
1,2-Dichloroethane	Ave	0.3562	0.3366		9.45	10.0	-5.5	50.0
Benzene	Ave	1.183	1.161		9.81	10.0	-1.9	50.0
Trichloroethene	Ave	0.3055	0.3111		10.2	10.0	1.8	50.0
1,2-Dichloropropane	Ave	0.2795	0.2727		9.76	10.0	-2.4	20.0
Methylcyclohexane	Ave	0.4249	0.4084		9.61	10.0	-3.9	50.0
Dibromomethane	Ave	0.1563	0.1552		9.93	10.0	-0.7	50.0
1,4-Dioxane	Ave	0.0026	0.0023		447	500	-10.6	50.0
Bromodichloromethane	Ave	0.3538	0.3517		9.94	10.0	-0.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Lab Sample ID: CCVIS 240-49859/2 Calibration Date: 07/05/2012 10:13

Instrument ID: A3UX11 Calib Start Date: 06/19/2012 13:56

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5590.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1684	0.1700		20.2	20.0	0.9	50.0
cis-1,3-Dichloropropene	Ave	0.4589	0.4696		10.2	10.0	2.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2026	0.1932		19.1	20.0	-4.7	50.0
Toluene	Ave	1.788	1.739		9.72	10.0	-2.8	20.0
trans-1,3-Dichloropropene	Ave	0.5575	0.5454		9.78	10.0	-2.2	50.0
Ethyl methacrylate	Ave	0.4851	0.4589		9.46	10.0	-5.4	50.0
1,1,2-Trichloroethane	Ave	0.3237	0.3300		10.2	10.0	1.9	50.0
1,3-Dichloropropane	Ave	0.5888	0.5697		9.68	10.0	-3.2	50.0
Tetrachloroethene	Ave	0.3358	0.3348		9.97	10.0	-0.3	50.0
2-Hexanone	Ave	0.1826	0.1687		18.5	20.0	-7.6	50.0
Dibromochloromethane	Ave	0.3533	0.3615		10.2	10.0	2.3	50.0
1,2-Dibromoethane	Ave	0.3304	0.3153		9.54	10.0	-4.6	50.0
Chlorobenzene	Ave	1.086	1.074	0.3000	9.89	10.0	-1.1	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3588	0.3709		10.3	10.0	3.4	50.0
Ethylbenzene	Ave	0.5952	0.5767		9.69	10.0	-3.1	20.0
m-Xylene & p-Xylene	Ave	0.7317	0.7257		19.8	20.0	-0.8	50.0
o-Xylene	Ave	0.6880	0.6856		9.97	10.0	-0.3	50.0
Styrene	Ave	1.156	1.177		10.2	10.0	1.8	50.0
Bromoform	Ave	0.1762	0.1944	0.1000	11.0	10.0	10.3	50.0
Isopropylbenzene	Ave	1.653	1.677		10.1	10.0	1.5	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7997	0.7440	0.3000	9.30	10.0	-7.0	50.0
Bromobenzene	Ave	1.163	1.234		10.6	10.0	6.1	50.0
1,2,3-Trichloropropane	Ave	0.2829	0.2753		9.73	10.0	-2.7	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1379	0.1751		12.7	10.0	26.9	50.0
N-Propylbenzene	Ave	1.243	1.284		10.3	10.0	3.3	50.0
2-Chlorotoluene	Ave	1.030	1.062		10.3	10.0	3.1	50.0
1,3,5-Trimethylbenzene	Ave	3.290	3.507		10.7	10.0	6.6	50.0
4-Chlorotoluene	Ave	1.003	1.061		10.6	10.0	5.7	50.0
tert-Butylbenzene	Ave	2.820	2.911		10.3	10.0	3.3	50.0
1,2,4-Trimethylbenzene	Ave	2.979	3.438		11.5	10.0	15.4	50.0
sec-Butylbenzene	Ave	3.501	3.704		10.6	10.0	5.8	50.0
1,3-Dichlorobenzene	Ave	1.572	1.525		9.70	10.0	-3.0	50.0
p-Isopropyltoluene	Ave	2.658	2.804		10.5	10.0	5.5	50.0
1,4-Dichlorobenzene	Ave	1.613	1.534		9.51	10.0	-4.9	50.0
n-Butylbenzene	Ave	2.121	1.988		9.37	10.0	-6.3	50.0
1,2-Dichlorobenzene	Ave	1.511	1.390		9.20	10.0	-8.0	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1479	0.1106		7.48	10.0	-25.2	50.0
1,3,5-Trichlorobenzene	Ave	1.036	1.000		9.66	10.0	-3.4	50.0
1,2,4-Trichlorobenzene	Ave	0.9348	0.8384		8.97	10.0	-10.3	50.0
Hexachlorobutadiene	Ave	0.4014	0.4012		10.0	10.0	-0.0	50.0
Naphthalene	Ave	2.428	1.531		6.31	10.0	-36.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab Sample ID: CCVIS 240-49859/2 Calibration Date: 07/05/2012 10:13
Instrument ID: A3UX11 Calib Start Date: 06/19/2012 13:56
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/19/2012 15:49
Lab File ID: UXJ5590.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Ave	0.8031	0.6055		7.54	10.0	-24.6	50.0
Dibromofluoromethane (Surr)	Ave	0.2429	0.2463		8.46	8.34	1.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3070	0.2931		7.96	8.34	-4.5	50.0
Toluene-d8 (Surr)	Ave	1.486	1.452		8.15	8.34	-2.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4352	0.4696		9.00	8.34	7.9	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5590.D
 Lims ID: CCVIS L4 8260 Client ID:
 Inject. Date: 05-Jul-2012 10:13:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: 240-0011335-002
 Misc. Info.: J20705A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 1
 Lims Batch ID: 49859 Lims Sample ID: 2
 Sublist: chrom-8260_11*sub11
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\8260_11.m
 Last Update: 06-Jul-2012 08:49:47 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 05-Jul-2012 10:35:00

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1418836	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	82	1056961	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	78	342901	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	94	291387	8.46	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	87	346862	7.96	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	83	1280065	8.15	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	93	413962	9.00	
8 Dichlorodifluoromethane	85	1.553	1.553	0.0	87	356299	11.4	
9 Chloromethane	50	1.684	1.684	0.0	99	525662	10.0	
10 Vinyl chloride	62	1.778	1.778	0.0	78	517220	10.4	
11 Bromomethane	94	2.074	2.074	0.0	89	205937	13.1	
12 Chloroethane	64	2.157	2.157	0.0	98	191695	11.2	
14 Trichlorofluoromethane	101	2.370	2.370	0.0	85	445681	10.3	
16 Acrolein	56	2.642	2.642	0.0	95	354377	67.4	
19 1,1-Dichloroethene	96	2.737	2.737	0.0	97	344922	9.84	M
17 Acetone	43	2.760	2.760	0.0	98	290653	34.8	
18 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.796	2.796	0.0	83	248587	10.3	
21 Iodomethane	142	2.926	2.926	0.0	95	495750	10.2	
23 Carbon disulfide	76	2.973	2.973	0.0	98	1087738	9.24	
24 Acetonitrile	41	2.985	2.985	0.0	95	374822	105.8	
25 Methyl acetate	43	3.032	3.032	0.0	89	472755	19.6	
26 Methylene Chloride	84	3.127	3.127	0.0	80	612687	15.6	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	97	497538	182.2	
28 Acrylonitrile	53	3.316	3.316	0.0	97	239210	19.1	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	63	396883	9.83	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	83	1061198	9.46	
31 Hexane	86	3.577	3.577	0.0	89	88622	9.76	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	85	657964	9.80	
33 Vinyl acetate	86	3.719	3.719	0.0	97	64019	7.97	
38 2-Butanone (MEK)	43	4.157	4.157	0.0	62	267985	19.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
39 2,2-Dichloropropane	77	4.168	4.168	0.0	68	317068	7.96	
40 cis-1,2-Dichloroethene	96	4.168	4.168	0.0	68	429950	9.71	
43 Chlorobromomethane	128	4.358	4.358	0.0	88	209212	10.1	
44 Tetrahydrofuran	42	4.405	4.405	0.0	84	84678	9.19	
45 Chloroform	83	4.417	4.417	0.0	81	659211	9.65	
46 1,1,1-Trichloroethane	97	4.594	4.594	0.0	84	450945	8.52	
47 Cyclohexane	56	4.654	4.654	0.0	84	557360	9.20	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	94	532182	9.62	
49 Carbon tetrachloride	117	4.736	4.736	0.0	76	413055	9.16	
52 Benzene	78	4.890	4.890	0.0	94	1646948	9.81	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	45	477589	9.45	
56 Trichloroethene	130	5.435	5.435	0.0	90	441324	10.2	
58 Methylcyclohexane	83	5.612	5.612	0.0	85	579406	9.61	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	91	386944	9.76	
61 Dibromomethane	93	5.707	5.707	0.0	89	220134	9.93	
62 1,4-Dioxane	88	5.719	5.719	0.0	87	163196	447.1	
63 Dichlorobromomethane	83	5.837	5.837	0.0	88	498969	9.94	
65 2-Chloroethyl vinyl ether	63	6.085	6.085	0.0	90	482304	20.2	
66 cis-1,3-Dichloropropene	75	6.227	6.227	0.0	90	666229	10.2	
67 4-Methyl-2-pentanone (MIBK)	43	6.358	6.358	0.0	94	548214	19.1	
68 Toluene	91	6.535	6.535	0.0	92	1837822	9.72	
69 trans-1,3-Dichloropropene	75	6.713	6.713	0.0	87	576502	9.78	
70 Ethyl methacrylate	69	6.784	6.784	0.0	87	485053	9.46	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	60	348788	10.2	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	88	602157	9.68	
72 Tetrachloroethene	164	7.032	7.032	0.0	78	353821	9.97	
74 2-Hexanone	43	7.091	7.091	0.0	91	356564	18.5	
76 Chlorodibromomethane	129	7.245	7.245	0.0	85	382106	10.2	
77 Ethylene Dibromide	107	7.363	7.363	0.0	97	333231	9.54	
79 Chlorobenzene	112	7.813	7.813	0.0	96	1134718	9.89	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	85	392068	10.3	
81 Ethylbenzene	106	7.908	7.908	0.0	98	609505	9.69	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	1534132	19.8	
83 o-Xylene	106	8.393	8.393	0.0	92	724656	9.97	
84 Styrene	104	8.405	8.405	0.0	91	1244430	10.2	
85 Bromoform	173	8.582	8.582	0.0	95	205461	11.0	
86 Isopropylbenzene	105	8.748	8.748	0.0	95	1772648	10.1	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	86	255131	9.30	
89 Bromobenzene	156	9.044	9.044	0.0	90	423038	10.6	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	73	94402	9.73	
91 trans-1,4-Dichloro-2-butene	53	9.079	9.079	0.0	58	60026	12.7	
92 N-Propylbenzene	120	9.150	9.150	0.0	97	440160	10.3	
93 2-Chlorotoluene	126	9.233	9.233	0.0	96	364275	10.3	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	90	1202436	10.7	
95 4-Chlorotoluene	126	9.339	9.339	0.0	98	363670	10.6	
96 tert-Butylbenzene	119	9.635	9.635	0.0	79	998319	10.3	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	89	1178942	11.5	
98 sec-Butylbenzene	105	9.860	9.860	0.0	92	1270108	10.6	
99 1,3-Dichlorobenzene	146	9.967	9.967	0.0	95	522990	9.70	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	88	961346	10.5	
101 1,4-Dichlorobenzene	146	10.049	10.049	0.0	91	525888	9.51	
103 n-Butylbenzene	91	10.404	10.404	0.0	93	681660	9.37	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
104 1,2-Dichlorobenzene	146	10.428	10.428	0.0	98	476610	9.20	
105 1,2-Dibromo-3-Chloropropane	157	11.185	11.185	0.0	74	37934	7.48	
106 1,3,5-Trichlorobenzene	180	11.410	11.410	0.0	98	342923	9.66	
107 1,2,4-Trichlorobenzene	180	12.025	12.025	0.0	93	287472	8.97	
108 Hexachlorobutadiene	225	12.215	12.215	0.0	88	137576	10.0	
109 Naphthalene	128	12.274	12.274	0.0	97	525033	6.31	
110 1,2,3-Trichlorobenzene	180	12.522	12.522	0.0	94	207621	7.54	
S 138 Trihalomethanes, Total	1				0		40.9	
S 112 1,2-Dichloroethene, Total	96				0		19.5	
S 113 1,3-Dichloropropene, Total	75				0		20.0	
S 114 Xylenes, Total	106				0		29.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 06-Jul-2012 08:49:47

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5590.D

Injection Date: 05-Jul-2012 10:13:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 49859

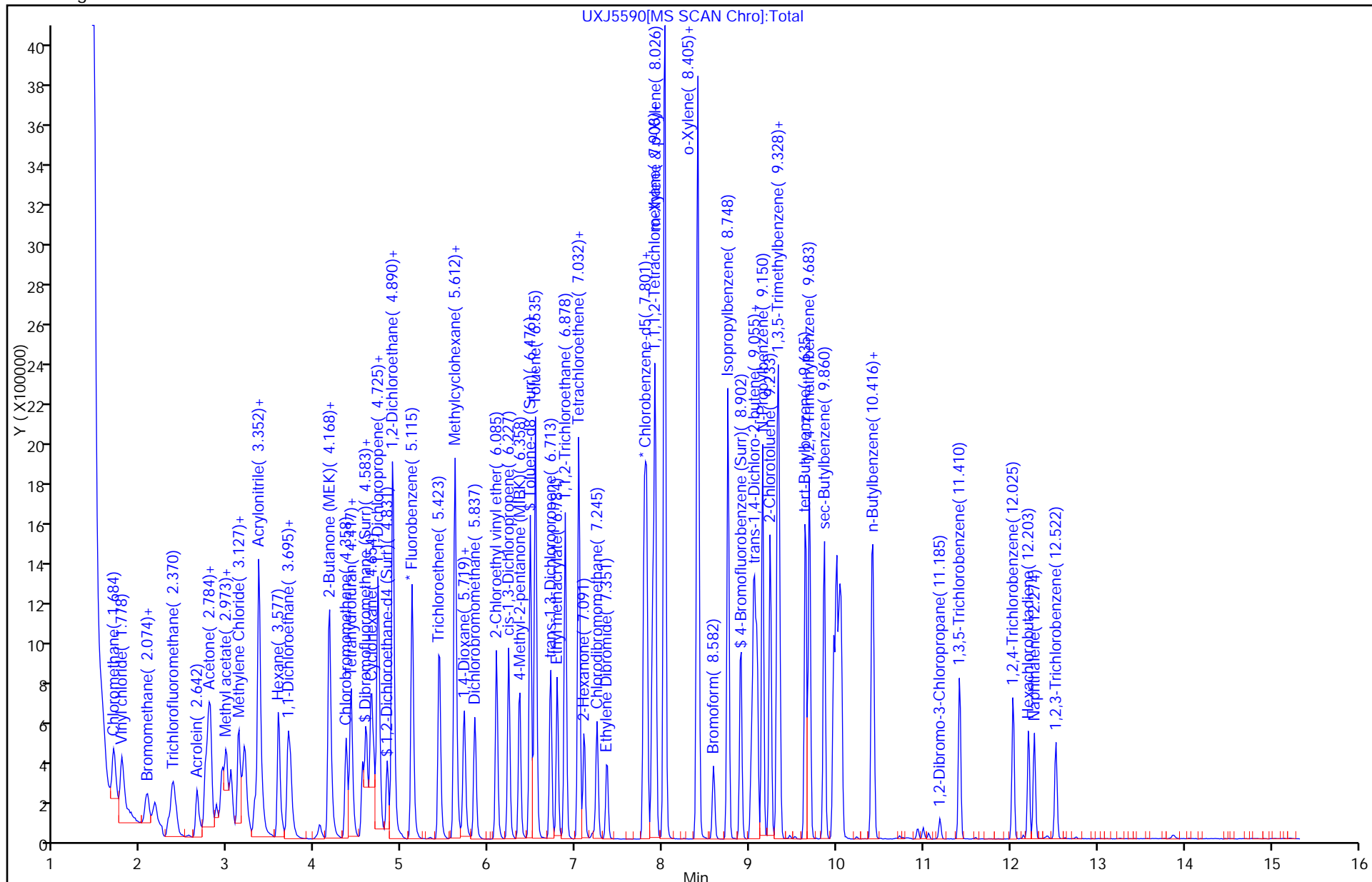
Lims Sample ID: 2

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:

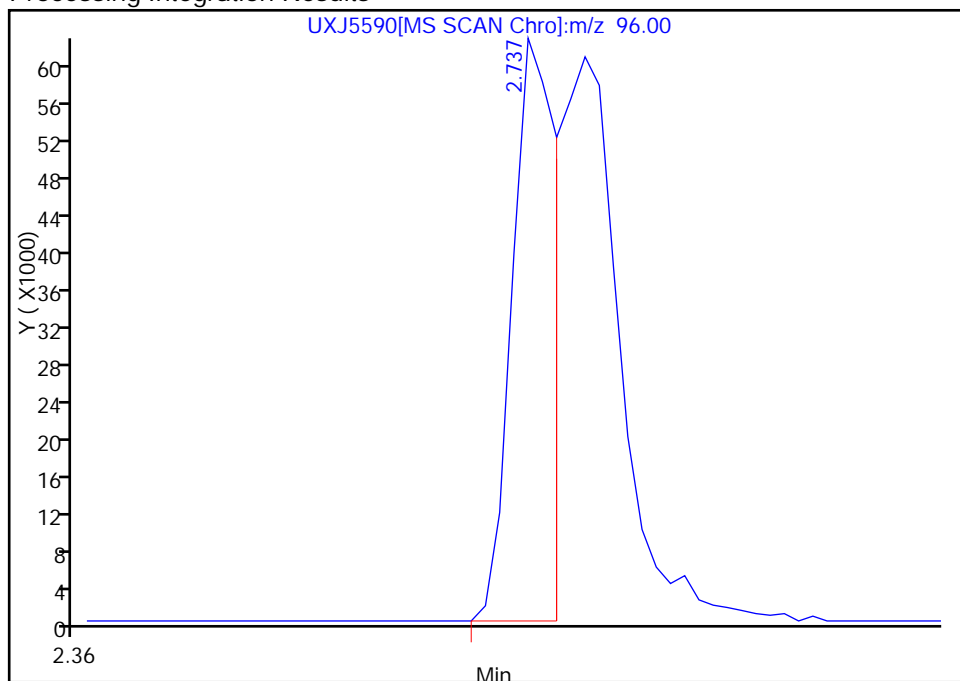


Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5590.D
Injection Date: 05-Jul-2012 10:13:30 Limit Group: MSV 8260B ICAL
Client ID: Instrument ID: A3UX11
Lims Batch ID: 49859 Lims Sample ID: 2
Operator ID: 43582
Column Type: DB-624 Column Dia: 0.18 mm

19 1,1-Dichloroethene, Signal: 1, m/z: 96.0 Type: quant, RT: 2.74

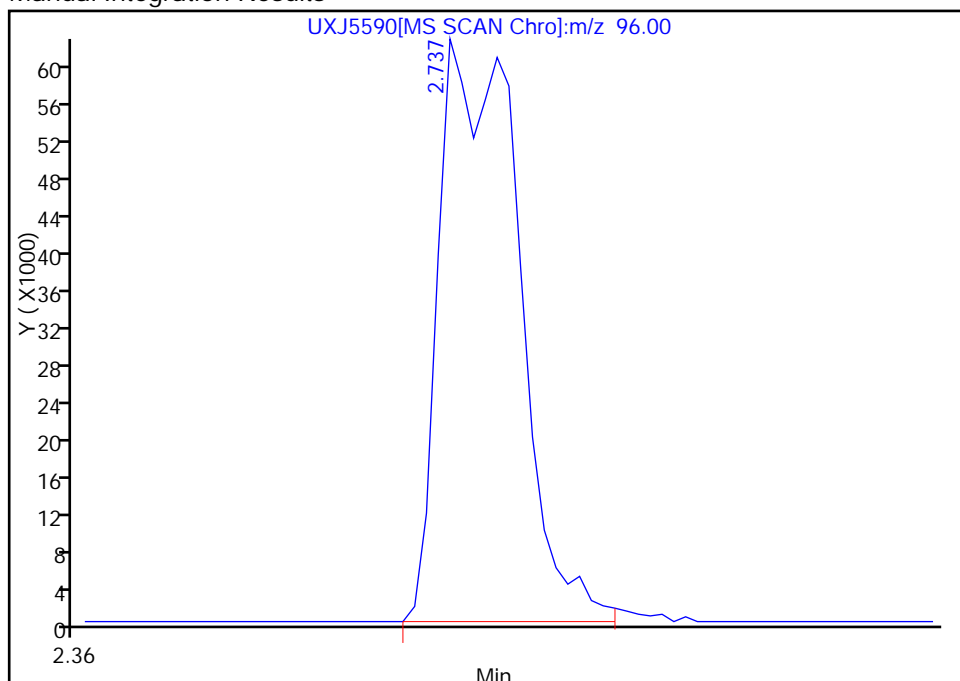
RT: 2.74
Response: 159469
Amount: 4.548407

Processing Integration Results



RT: 2.74
Response: 344922
Amount: 9.837934

Manual Integration Results



Reviewer: evansle, 05-Jul-2012 10:35:00
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab Sample ID: CCV 240-49859/3 Calibration Date: 07/05/2012 10:36
Instrument ID: A3UX11 Calib Start Date: 06/19/2012 13:56
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/19/2012 15:49
Lab File ID: UXJ5591.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2429	0.2415		8.29	8.34	-0.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3070	0.2742		7.45	8.34	-10.7	50.0
Toluene-d8 (Surr)	Ave	1.486	1.452		8.15	8.34	-2.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4352	0.4774		9.15	8.34	9.7	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5591.D
 Lims ID: CCV A9 L4 Client ID:
 Inject. Date: 05-Jul-2012 10:36:30 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: 240-0011335-003
 Misc. Info.: J20705A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 2
 Lims Batch ID: 49859 Lims Sample ID: 3
 Sublist: chrom-8260_11*sub3
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\8260_11.m
 Last Update: 06-Jul-2012 08:49:48 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 05-Jul-2012 11:05:41

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1315714	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	83	996383	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	93	316249	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	94	265042	8.29	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	89	300907	7.45	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	82	1206587	8.15	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	87	396733	9.15	
13 Dichlorofluoromethane	67	2.299	2.299	0.0	82	567372	10.0	
15 Ethyl ether	59	2.547	2.547	0.0	88	300305	9.95	
22 3-Chloro-1-propene	76	3.033	3.033	0.0	84	199988	9.75	
34 Isopropyl ether	87	3.743	3.743	0.0	94	1808967	50.5	
35 2-Chloro-1,3-butadiene	53	3.766	3.766	0.0	86	524101	9.42	
37 Tert-butyl ethyl ether	59	4.038	4.038	0.0	95	1117116	9.75	
41 Ethyl acetate	43	4.204	4.204	0.0	98	521865	17.8	
36 Propionitrile	54	4.204	4.204	0.0	97	84823	19.2	
42 Methacrylonitrile	41	4.334	4.334	0.0	88	181408	9.09	
50 Isobutyl alcohol	41	4.772	4.772	0.0	90	173446	175.0	
53 Tert-amyl methyl ether	73	4.973	4.973	0.0	98	1070217	9.76	
54 n-Heptane	100	5.103	5.103	0.0	89	65504	8.12	
55 n-Butanol	56	5.328	5.328	0.0	83	158114	172.5	
60 Methyl methacrylate	41	5.695	5.695	0.0	86	267918	9.20	
64 2-Nitropropane	41	6.026	6.026	0.0	98	147848	18.5	
132 n-Butyl acetate	43	7.210	7.210	0.0	93	850174	18.4	
87 Cyclohexanone	55	8.831	8.831	0.0	88	210266	121.4	
102 1,2,3-Trimethylbenzene	105	10.109	10.109	0.0	97	894671	10.1	
111 2-Methylnaphthalene	142	13.552	13.552	0.0	83	147131	4.75	

Report Date: 06-Jul-2012 08:49:48

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5591.D

Injection Date: 05-Jul-2012 10:36:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 49859

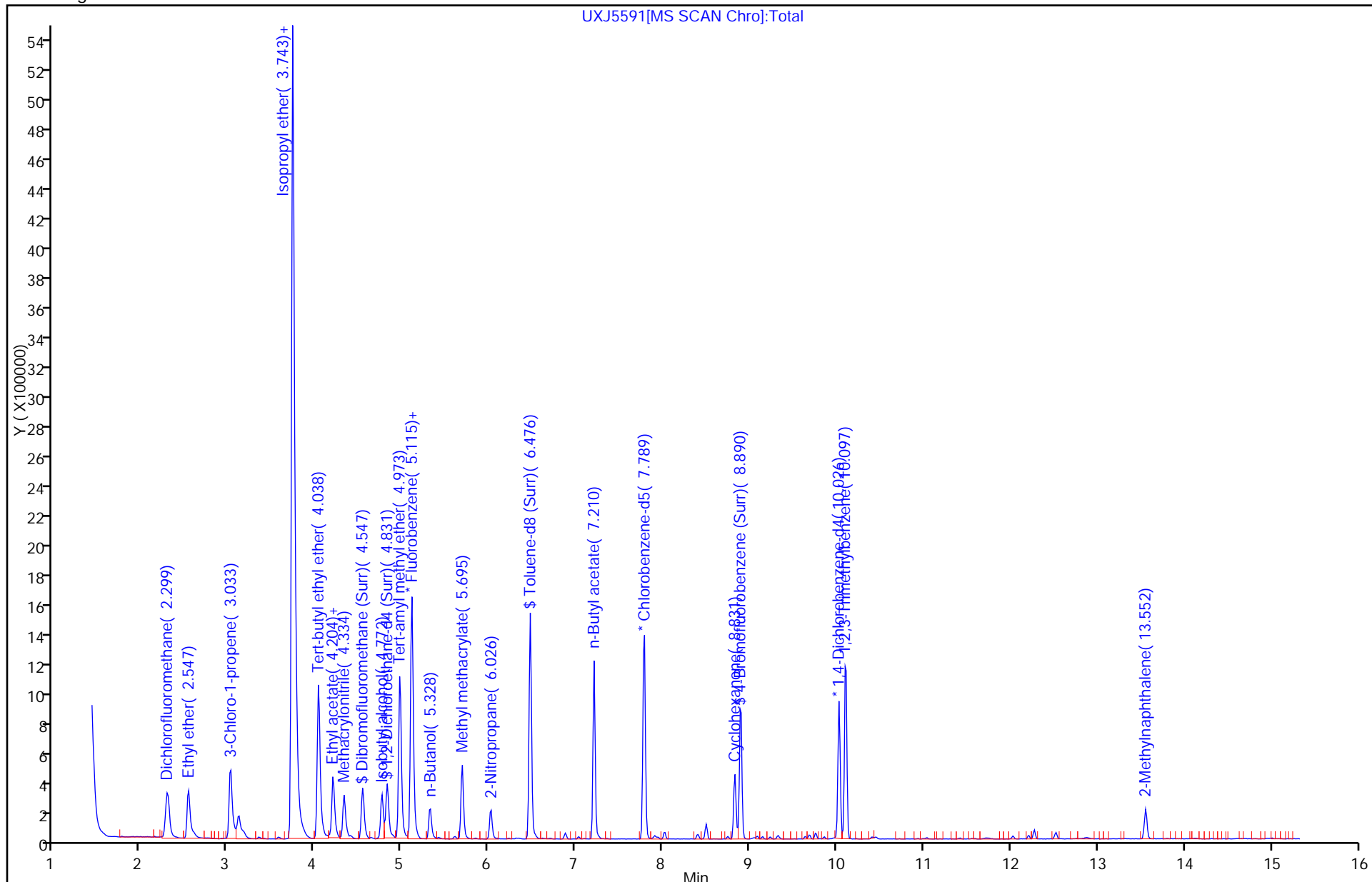
Lims Sample ID: 3

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: CCV 240-49859/3 Calibration Date: 07/05/2012 10:36
 Instrument ID: A3UX11 Calib Start Date: 06/19/2012 16:12
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/19/2012 18:05
 Lab File ID: UXJ5591.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.4307	0.4312		10.0	10.0	0.1	50.0
Ethyl ether	Ave	0.2293	0.2282		9.95	10.0	-0.5	50.0
3-Chloro-1-propene	Ave	0.1559	0.1520		9.75	10.0	-2.5	50.0
Isopropyl ether	Ave	0.2723	0.2750		50.5	50.0	1.0	50.0
2-Chloro-1,3-butadiene	Ave	0.4228	0.3983		9.42	10.0	-5.8	50.0
Tert-butyl ethyl ether	Ave	0.8709	0.8491		9.75	10.0	-2.5	50.0
Ethyl acetate	Ave	0.2224	0.1983		17.8	20.0	-10.8	50.0
Propionitrile	Ave	0.0336	0.0322		19.2	20.0	-4.1	50.0
Methacrylonitrile	Ave	0.1516	0.1379		9.09	10.0	-9.1	50.0
Isobutyl alcohol	Ave	0.0099	0.0087		175	200	-12.5	50.0
Tert-amyl methyl ether	Ave	0.8333	0.8134		9.76	10.0	-2.4	50.0
n-Heptane	Ave	0.0613	0.0498		8.12	10.0	-18.8	50.0
n-Butanol	Ave	0.0092	0.0079		173	200	-13.7	50.0
Methyl methacrylate	Ave	0.2213	0.2036		9.20	10.0	-8.0	50.0
2-Nitropropane	Ave	0.0609	0.0562		18.5	20.0	-7.7	50.0
Cyclohexanone	Ave	0.0548	0.0665		121	100	21.4	50.0
1,2,3-Trimethylbenzene	Ave	2.796	2.829		10.1	10.0	1.2	50.0
2-Methylnaphthalene	Ave	0.9791	0.2326		4.75	20.0	-76.2*	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5591.D
 Lims ID: CCV A9 L4 Client ID:
 Inject. Date: 05-Jul-2012 10:36:30 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: 240-0011335-003
 Misc. Info.: J20705A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 2
 Lims Batch ID: 49859 Lims Sample ID: 3
 Sublist: chrom-8260_11*sub3
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\8260_11.m
 Last Update: 06-Jul-2012 08:49:48 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 05-Jul-2012 11:05:41

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1315714	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	83	996383	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	93	316249	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	94	265042	8.29	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	89	300907	7.45	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	82	1206587	8.15	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	87	396733	9.15	
13 Dichlorofluoromethane	67	2.299	2.299	0.0	82	567372	10.0	
15 Ethyl ether	59	2.547	2.547	0.0	88	300305	9.95	
22 3-Chloro-1-propene	76	3.033	3.033	0.0	84	199988	9.75	
34 Isopropyl ether	87	3.743	3.743	0.0	94	1808967	50.5	
35 2-Chloro-1,3-butadiene	53	3.766	3.766	0.0	86	524101	9.42	
37 Tert-butyl ethyl ether	59	4.038	4.038	0.0	95	1117116	9.75	
41 Ethyl acetate	43	4.204	4.204	0.0	98	521865	17.8	
36 Propionitrile	54	4.204	4.204	0.0	97	84823	19.2	
42 Methacrylonitrile	41	4.334	4.334	0.0	88	181408	9.09	
50 Isobutyl alcohol	41	4.772	4.772	0.0	90	173446	175.0	
53 Tert-amyl methyl ether	73	4.973	4.973	0.0	98	1070217	9.76	
54 n-Heptane	100	5.103	5.103	0.0	89	65504	8.12	
55 n-Butanol	56	5.328	5.328	0.0	83	158114	172.5	
60 Methyl methacrylate	41	5.695	5.695	0.0	86	267918	9.20	
64 2-Nitropropane	41	6.026	6.026	0.0	98	147848	18.5	
132 n-Butyl acetate	43	7.210	7.210	0.0	93	850174	18.4	
87 Cyclohexanone	55	8.831	8.831	0.0	88	210266	121.4	
102 1,2,3-Trimethylbenzene	105	10.109	10.109	0.0	97	894671	10.1	
111 2-Methylnaphthalene	142	13.552	13.552	0.0	83	147131	4.75	

Report Date: 06-Jul-2012 08:49:48

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5591.D

Injection Date: 05-Jul-2012 10:36:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 49859

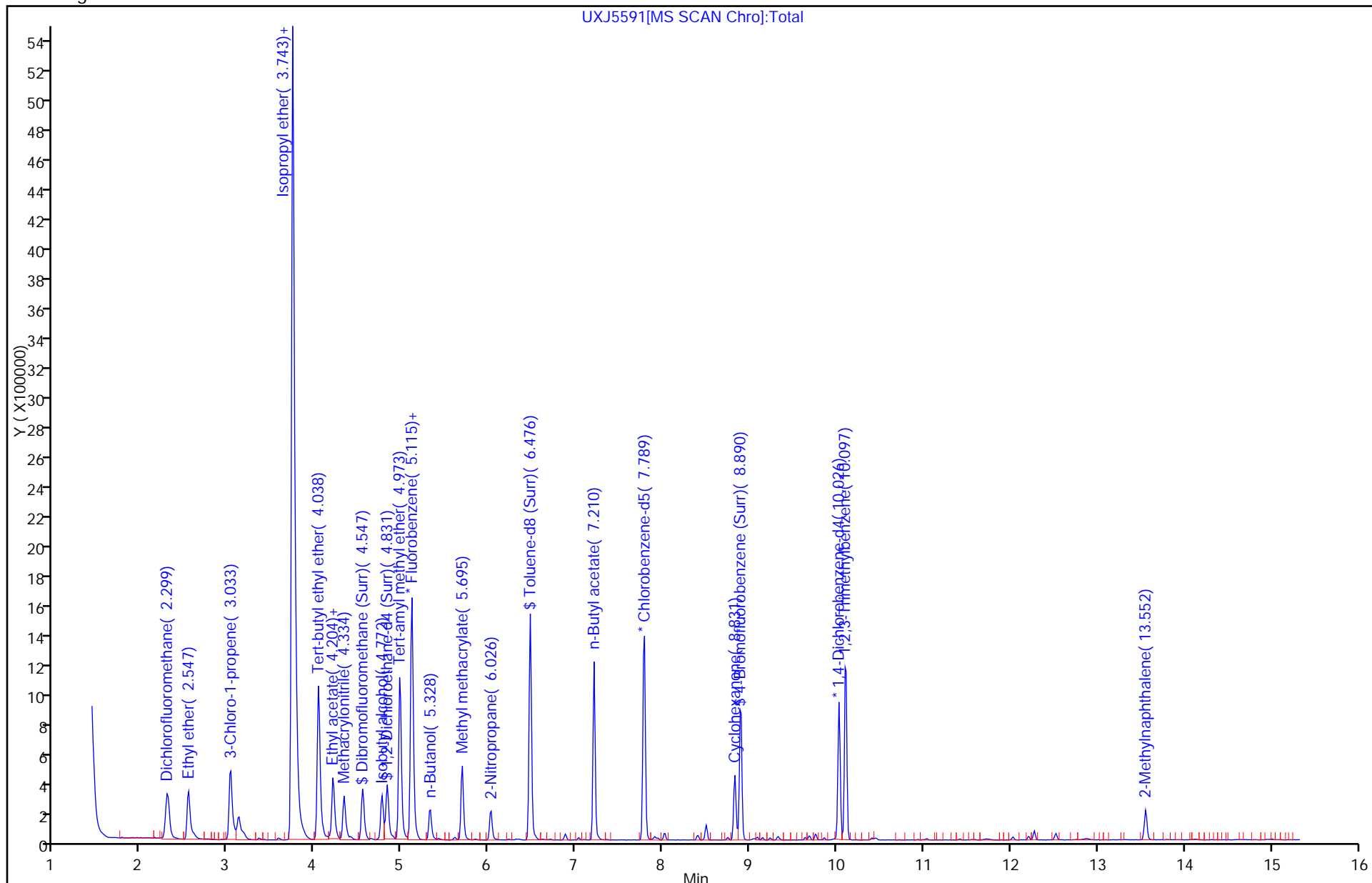
Lims Sample ID: 3

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Lab Sample ID: ICV 240-42081/14 Calibration Date: 04/29/2012 15:55

Instrument ID: A3UX15 Calib Start Date: 04/29/2012 11:24

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/29/2012 13:17

Lab File ID: UXC3088.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3114	0.2392		7.68	10.0	-23.2	50.0
Chloromethane	Ave	0.3810	0.3171	0.1000	8.32	10.0	-16.8	50.0
Vinyl chloride	Ave	0.3567	0.3167		8.88	10.0	-11.2	20.0
Bromomethane	Ave	0.1736	0.1240		7.15	10.0	-28.5	50.0
Chloroethane	Ave	0.1942	0.1640		8.44	10.0	-15.6	50.0
Trichlorofluoromethane	Ave	0.4220	0.4132		9.79	10.0	-2.1	50.0
1,1-Dichloroethene	Ave	0.2858	0.2898		10.1	10.0	1.4	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Lin1		0.2602		10.1	10.0	1.0	50.0
Acetone	Lin1		0.0824		19.8	20.0	-1.0	50.0
Iodomethane	Ave	0.5772	0.5318		9.21	10.0	-7.9	50.0
Carbon disulfide	Ave	0.8777	0.8042		9.16	10.0	-8.4	50.0
Methyl acetate	Ave	0.2014	0.2379		11.8	10.0	18.1	50.0
Methylene Chloride	Lin1		0.3460		9.47	10.0	-5.3	50.0
2-Methyl-2-propanol	Ave	0.0143	0.0129		180	200	-9.9	50.0
Methyl tert-butyl ether	Ave	0.7717	0.7054		9.14	10.0	-8.6	50.0
trans-1,2-Dichloroethene	Ave	0.3403	0.3172		9.32	10.0	-6.8	50.0
Hexane	Lin1		0.0650		10.0	10.0	0.0	20.0
1,1-Dichloroethane	Ave	0.5887	0.5656	0.1000	9.61	10.0	-3.9	50.0
Vinyl acetate	Lin1		0.0339		7.64	10.0	-23.6	50.0
2,2-Dichloropropane	Ave	0.3123	0.2702		8.65	10.0	-13.5	50.0
cis-1,2-Dichloroethene	Ave	0.3682	0.3428		9.31	10.0	-6.9	50.0
2-Butanone (MEK)	Ave	0.1103	0.1039		18.8	20.0	-5.8	50.0
Bromochloromethane	Ave	0.1758	0.1645		9.36	10.0	-6.4	50.0
Tetrahydrofuran	Ave	0.0696	0.0682		9.79	10.0	-2.1	50.0
Chloroform	Ave	0.6174	0.5564		9.01	10.0	-9.9	20.0
1,1,1-Trichloroethane	Ave	0.4513	0.4129		9.15	10.0	-8.5	50.0
Cyclohexane	Lin1		0.4932		9.16	10.0	-8.4	50.0
1,1-Dichloropropene	Ave	0.4398	0.4123		9.38	10.0	-6.2	50.0
Carbon tetrachloride	Lin1		0.3394		8.54	10.0	-14.6	50.0
Benzene	Ave	1.299	1.196		9.21	10.0	-7.9	50.0
1,2-Dichloroethane	Ave	0.4524	0.4280		9.46	10.0	-5.4	50.0
Trichloroethene	Ave	0.3444	0.3255		9.45	10.0	-5.5	50.0
Methylcyclohexane	Lin1		0.4231		8.97	10.0	-10.3	50.0
1,2-Dichloropropane	Ave	0.2895	0.2626		9.07	10.0	-9.3	20.0
Dibromomethane	Ave	0.1633	0.1596		9.77	10.0	-2.3	50.0
Bromodichloromethane	Ave	0.3269	0.3112		9.52	10.0	-4.8	50.0
2-Chloroethyl vinyl ether	Ave	0.1050	0.1047		9.98	10.0	-0.2	50.0
cis-1,3-Dichloropropene	Lin1		0.2882		8.13	10.0	-18.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1993	0.2024		20.3	20.0	1.6	50.0
Toluene	Ave	1.892	1.698		8.98	10.0	-10.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Lab Sample ID: ICV 240-42081/14 Calibration Date: 04/29/2012 15:55

Instrument ID: A3UX15 Calib Start Date: 04/29/2012 11:24

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/29/2012 13:17

Lab File ID: UXC3088.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,3-Dichloropropene	Ave	0.3683	0.3335		9.06	10.0	-9.4	50.0
1,1,2-Trichloroethane	Ave	0.3142	0.3030		9.64	10.0	-3.6	50.0
Tetrachloroethene	Ave	0.3846	0.3516		9.14	10.0	-8.6	50.0
1,3-Dichloropropane	Ave	0.5687	0.5340		9.39	10.0	-6.1	50.0
2-Hexanone	Ave	0.1861	0.1890		20.3	20.0	1.5	50.0
Dibromochloromethane	Ave	0.3002	0.2670		8.90	10.0	-11.0	50.0
1,2-Dibromoethane	Ave	0.3005	0.2864		9.53	10.0	-4.7	50.0
Chlorobenzene	Ave	1.171	1.055	0.3000	9.01	10.0	-9.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3850	0.3470		9.01	10.0	-9.9	50.0
Ethylbenzene	Ave	0.6207	0.5630		9.07	10.0	-9.3	20.0
m-Xylene & p-Xylene	Ave	1.555	1.413		18.2	20.0	-9.2	50.0
o-Xylene	Ave	0.7828	0.7132		9.11	10.0	-8.9	50.0
Styrene	Ave	1.211	1.102		9.10	10.0	-9.0	50.0
Bromoform	Ave	0.1602	0.1462	0.1000	9.12	10.0	-8.8	50.0
Isopropylbenzene	Ave	1.872	1.702		9.09	10.0	-9.1	50.0
Bromobenzene	Ave	0.9495	0.8552		9.01	10.0	-9.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7411	0.6881	0.3000	9.28	10.0	-7.2	50.0
1,2,3-Trichloropropane	Ave	0.2524	0.2437		9.66	10.0	-3.4	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1070	0.1077		20.1	20.0	0.6	50.0
N-Propylbenzene	Ave	0.9057	0.8310		9.17	10.0	-8.3	50.0
2-Chlorotoluene	Ave	0.8687	0.7934		9.13	10.0	-8.7	50.0
1,3,5-Trimethylbenzene	Ave	2.831	2.549		9.00	10.0	-10.0	50.0
4-Chlorotoluene	Ave	2.813	2.499		8.88	10.0	-11.2	50.0
tert-Butylbenzene	Ave	2.243	2.041		9.10	10.0	-9.0	50.0
1,2,4-Trimethylbenzene	Ave	2.927	2.703		9.23	10.0	-7.7	50.0
sec-Butylbenzene	Ave	3.074	2.756		8.97	10.0	-10.3	50.0
1,3-Dichlorobenzene	Ave	1.735	1.519		8.75	10.0	-12.5	50.0
p-Isopropyltoluene	Ave	2.715	2.541		9.36	10.0	-6.4	50.0
1,4-Dichlorobenzene	Ave	1.807	1.533		8.48	10.0	-15.2	50.0
1,2-Dichlorobenzene	Ave	1.740	1.547		8.89	10.0	-11.1	50.0
n-Butylbenzene	Ave	2.345	2.088		8.90	10.0	-11.0	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1164	0.1229		10.6	10.0	5.6	50.0
1,2,4-Trichlorobenzene	Ave	1.224	1.023		8.36	10.0	-16.4	50.0
Hexachlorobutadiene	Qua		0.4447		6.71	10.0	-32.9	50.0
Naphthalene	Ave	2.455	2.363		9.62	10.0	-3.8	50.0
1,2,3-Trichlorobenzene	Qua		0.9425		8.51	10.0	-14.9	50.0
Dibromofluoromethane (Surr)	Ave	0.3114	0.2984		8.53	8.90	-4.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3753	0.3714		8.81	8.90	-1.1	50.0
Toluene-d8 (Surr)	Ave	1.619	1.580		8.69	8.90	-2.4	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5090	0.5031		8.80	8.90	-1.1	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3088.D
 Lims ID: ICV Client ID:
 Inject. Date: 29-Apr-2012 15:55:30 Dil. Factor: 1.0000
 Sample Type: ICV
 Sample ID: 240-0009503-014
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 13
 Lims Batch ID: 42081 Lims Sample ID: 14
 Sublist:
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:43:06 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

First Level Reviewer: evansle

Date: 30-Apr-2012 08:15:18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.668	0.0	99	1579447	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	85	1033620	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	95	538234	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	64	419499	8.53	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	522026	8.81	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	1453691	8.69	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	95	462844	8.80	
12 Dichlorodifluoromethane	85	1.170	1.158	0.012	97	377865	7.68	
13 Chloromethane	50	1.276	1.277	-0.001	89	500863	8.32	
14 Vinyl chloride	62	1.359	1.360	-0.001	83	500241	8.88	
15 Bromomethane	94	1.597	1.597	0.0	91	195922	7.15	
16 Chloroethane	64	1.680	1.668	0.012	95	258961	8.44	
18 Trichlorofluoromethane	101	1.858	1.858	0.0	87	652667	9.79	
19 Ethyl ether	59	2.083	2.083	0.0	90	361696	9.62	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	90	457649	10.1	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.296	2.284	0.012	80	411031	10.1	
22 Acetone	43	2.308	2.308	0.0	95	260148	19.8	
24 Iodomethane	142	2.379	2.379	0.0	99	839996	9.21	
26 Carbon disulfide	76	2.439	2.427	0.012	99	1270247	9.16	
28 Methyl acetate	43	2.581	2.581	0.0	96	375664	11.8	
30 Methylene Chloride	84	2.664	2.664	0.0	89	546417	9.47	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	91	406141	180.2	
33 trans-1,2-Dichloroethene	96	2.889	2.889	0.0	94	500969	9.32	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	90	1114212	9.14	
35 Hexane	86	3.115	3.115	-0.001	95	102717	10.0	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	85	893265	9.61	
37 Vinyl acetate	86	3.281	3.281	0.0	95	53560	7.64	
38 Isopropyl ether	87	3.304	3.293	0.011	90	403593	8.98	
42 cis-1,2-Dichloroethene	96	3.707	3.708	-0.001	71	541430	9.31	
43 2,2-Dichloropropane	77	3.707	3.708	-0.001	59	426748	8.65	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
41 2-Butanone (MEK)	43	3.731	3.731	0.0	98	328260	18.8	
47 Chlorobromomethane	128	3.909	3.909	0.0	95	259873	9.36	
48 Tetrahydrofuran	42	3.945	3.945	0.0	92	107670	9.79	
49 Chloroform	83	3.980	3.980	0.0	81	878820	9.01	
50 1,1,1-Trichloroethane	97	4.122	4.123	-0.001	90	652136	9.15	
51 Cyclohexane	56	4.170	4.158	0.012	90	778999	9.16	
53 Carbon tetrachloride	117	4.265	4.253	0.012	68	536032	8.54	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	92	651259	9.38	
54 Isobutyl alcohol	41	4.383	4.384	-0.001	92	426457	483.1	
55 Benzene	78	4.431	4.431	0.0	96	1889385	9.21	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	90	675955	9.46	
60 Trichloroethene	130	4.976	4.965	0.012	92	514125	9.45	
63 Methylcyclohexane	83	5.130	5.131	-0.001	90	668232	8.97	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	93	414702	9.07	
65 Dibromomethane	93	5.261	5.261	0.0	82	252032	9.77	
67 Dichlorobromomethane	83	5.391	5.391	0.0	94	491459	9.52	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	90	165439	9.98	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	92	455206	8.13	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	98	639251	20.3	
72 Toluene	91	6.067	6.067	0.0	97	1755475	8.98	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	90	344733	9.06	
75 1,1,2-Trichloroethane	97	6.435	6.423	0.012	85	313199	9.64	
77 Tetrachloroethene	164	6.553	6.554	-0.001	90	363401	9.14	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	91	551957	9.39	
78 2-Hexanone	43	6.660	6.660	0.0	97	390614	20.3	
79 Chlorodibromomethane	129	6.779	6.779	0.0	90	276018	8.90	
123 Ethylene Dibromide	107	6.874	6.874	0.0	98	295998	9.53	
82 Chlorobenzene	112	7.324	7.324	0.0	94	1090462	9.01	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	91	358640	9.01	
84 Ethylbenzene	106	7.431	7.431	0.0	98	581897	9.07	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	92	2920380	18.2	
85 o-Xylene	106	7.905	7.905	0.0	97	737174	9.11	
86 Styrene	104	7.917	7.917	0.0	93	1138755	9.10	
87 Bromoform	173	8.095	8.095	0.0	92	151109	9.12	
88 Isopropylbenzene	105	8.261	8.261	0.0	95	1759662	9.09	
89 Cyclohexanone	55	8.344	8.344	0.0	93	152170	54.1	
91 Bromobenzene	156	8.534	8.534	0.0	81	460295	9.01	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	83	370349	9.28	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	82	131189	9.66	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	57	115892	20.1	
94 N-Propylbenzene	120	8.652	8.653	0.0	98	447270	9.17	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	427008	9.13	
96 1,3,5-Trimethylbenzene	105	8.818	8.819	-0.001	89	1371962	9.00	
104 4-Chlorotoluene	91	8.830	8.830	0.0	99	1344779	8.88	
97 tert-Butylbenzene	119	9.127	9.127	0.0	90	1098582	9.10	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	96	1454868	9.23	
99 sec-Butylbenzene	105	9.340	9.340	0.0	93	1483459	8.97	
100 1,3-Dichlorobenzene	146	9.447	9.435	0.012	97	817542	8.75	
101 4-Isopropyltoluene	119	9.494	9.494	0.0	91	1367390	9.36	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	90	825238	8.48	
103 1,2,3-Trimethylbenzene	105	9.589	9.578	0.011	97	1511079	9.67	
105 n-Butylbenzene	91	9.886	9.886	0.0	97	1123896	8.90	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	83	832670	8.89	
107 1,2-Dibromo-3-Chloropropane	157	10.657	10.657	0.0	80	66129	10.6	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	93	550434	8.36	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	91	239363	6.71	
111 Naphthalene	128	11.700	11.700	0.0	97	1271648	9.62	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	94	507269	8.51	
S 137 Trihalomethanes, Total	1				0		36.6	
S 11 1,2-Dichloroethene, Total	96				0		18.6	
S 114 Xylenes, Total	106				0		27.3	

Report Date: 01-May-2012 11:13:58

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3088.D

Injection Date: 29-Apr-2012 15:55:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

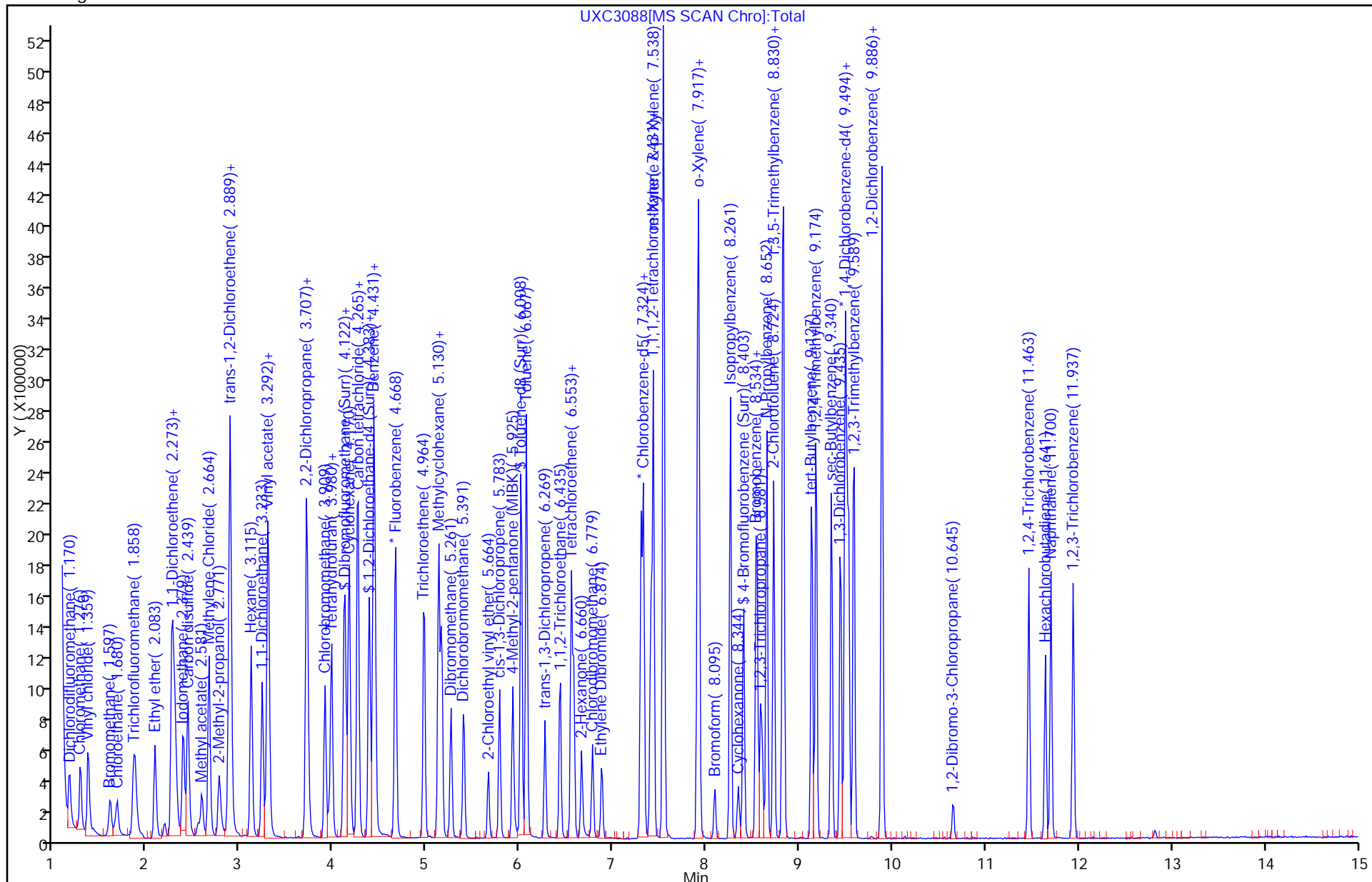
Lims Sample ID: 14

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICV 240-42081/14 Calibration Date: 04/29/2012 15:55
 Instrument ID: A3UX15 Calib Start Date: 04/29/2012 13:40
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/29/2012 15:33
 Lab File ID: UXC3088.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl ether	Ave	0.2380	0.2290		9.62	10.0	-3.8	50.0
Isopropyl ether	Ave	0.2846	0.2555		8.98	10.0	-10.2	50.0
Isobutyl alcohol	Lin1		0.0054		483	500	-3.4	50.0
Cyclohexanone	Ave	0.0523	0.0141		54.1	200	-73.0*	50.0
1,2,3-Trimethylbenzene	Ave	2.905	2.807		9.67	10.0	-3.3	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3088.D
 Lims ID: ICV Client ID:
 Inject. Date: 29-Apr-2012 15:55:30 Dil. Factor: 1.0000
 Sample Type: ICV
 Sample ID: 240-0009503-014
 Misc. Info.: C20429A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 13
 Lims Batch ID: 42081 Lims Sample ID: 14
 Sublist:
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
 Last Update: 30-Apr-2012 08:43:06 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

First Level Reviewer: evansle

Date: 30-Apr-2012 08:15:18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.668	4.668	0.0	99	1579447	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	85	1033620	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	95	538234	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	64	419499	8.53	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	522026	8.81	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	1453691	8.69	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	95	462844	8.80	
12 Dichlorodifluoromethane	85	1.170	1.158	0.012	97	377865	7.68	
13 Chloromethane	50	1.276	1.277	-0.001	89	500863	8.32	
14 Vinyl chloride	62	1.359	1.360	-0.001	83	500241	8.88	
15 Bromomethane	94	1.597	1.597	0.0	91	195922	7.15	
16 Chloroethane	64	1.680	1.668	0.012	95	258961	8.44	
18 Trichlorofluoromethane	101	1.858	1.858	0.0	87	652667	9.79	
19 Ethyl ether	59	2.083	2.083	0.0	90	361696	9.62	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	90	457649	10.1	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.296	2.284	0.012	80	411031	10.1	
22 Acetone	43	2.308	2.308	0.0	95	260148	19.8	
24 Iodomethane	142	2.379	2.379	0.0	99	839996	9.21	
26 Carbon disulfide	76	2.439	2.427	0.012	99	1270247	9.16	
28 Methyl acetate	43	2.581	2.581	0.0	96	375664	11.8	
30 Methylene Chloride	84	2.664	2.664	0.0	89	546417	9.47	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	91	406141	180.2	
33 trans-1,2-Dichloroethene	96	2.889	2.889	0.0	94	500969	9.32	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	90	1114212	9.14	
35 Hexane	86	3.115	3.115	-0.001	95	102717	10.0	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	85	893265	9.61	
37 Vinyl acetate	86	3.281	3.281	0.0	95	53560	7.64	
38 Isopropyl ether	87	3.304	3.293	0.011	90	403593	8.98	
42 cis-1,2-Dichloroethene	96	3.707	3.708	-0.001	71	541430	9.31	
43 2,2-Dichloropropane	77	3.707	3.708	-0.001	59	426748	8.65	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
41 2-Butanone (MEK)	43	3.731	3.731	0.0	98	328260	18.8	
47 Chlorobromomethane	128	3.909	3.909	0.0	95	259873	9.36	
48 Tetrahydrofuran	42	3.945	3.945	0.0	92	107670	9.79	
49 Chloroform	83	3.980	3.980	0.0	81	878820	9.01	
50 1,1,1-Trichloroethane	97	4.122	4.123	-0.001	90	652136	9.15	
51 Cyclohexane	56	4.170	4.158	0.012	90	778999	9.16	
53 Carbon tetrachloride	117	4.265	4.253	0.012	68	536032	8.54	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	92	651259	9.38	
54 Isobutyl alcohol	41	4.383	4.384	-0.001	92	426457	483.1	
55 Benzene	78	4.431	4.431	0.0	96	1889385	9.21	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	90	675955	9.46	
60 Trichloroethene	130	4.976	4.965	0.012	92	514125	9.45	
63 Methylcyclohexane	83	5.130	5.131	-0.001	90	668232	8.97	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	93	414702	9.07	
65 Dibromomethane	93	5.261	5.261	0.0	82	252032	9.77	
67 Dichlorobromomethane	83	5.391	5.391	0.0	94	491459	9.52	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	90	165439	9.98	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	92	455206	8.13	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	98	639251	20.3	
72 Toluene	91	6.067	6.067	0.0	97	1755475	8.98	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	90	344733	9.06	
75 1,1,2-Trichloroethane	97	6.435	6.423	0.012	85	313199	9.64	
77 Tetrachloroethene	164	6.553	6.554	-0.001	90	363401	9.14	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	91	551957	9.39	
78 2-Hexanone	43	6.660	6.660	0.0	97	390614	20.3	
79 Chlorodibromomethane	129	6.779	6.779	0.0	90	276018	8.90	
123 Ethylene Dibromide	107	6.874	6.874	0.0	98	295998	9.53	
82 Chlorobenzene	112	7.324	7.324	0.0	94	1090462	9.01	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	91	358640	9.01	
84 Ethylbenzene	106	7.431	7.431	0.0	98	581897	9.07	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	92	2920380	18.2	
85 o-Xylene	106	7.905	7.905	0.0	97	737174	9.11	
86 Styrene	104	7.917	7.917	0.0	93	1138755	9.10	
87 Bromoform	173	8.095	8.095	0.0	92	151109	9.12	
88 Isopropylbenzene	105	8.261	8.261	0.0	95	1759662	9.09	
89 Cyclohexanone	55	8.344	8.344	0.0	93	152170	54.1	
91 Bromobenzene	156	8.534	8.534	0.0	81	460295	9.01	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	83	370349	9.28	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	82	131189	9.66	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	57	115892	20.1	
94 N-Propylbenzene	120	8.652	8.653	0.0	98	447270	9.17	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	427008	9.13	
96 1,3,5-Trimethylbenzene	105	8.818	8.819	-0.001	89	1371962	9.00	
104 4-Chlorotoluene	91	8.830	8.830	0.0	99	1344779	8.88	
97 tert-Butylbenzene	119	9.127	9.127	0.0	90	1098582	9.10	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	96	1454868	9.23	
99 sec-Butylbenzene	105	9.340	9.340	0.0	93	1483459	8.97	
100 1,3-Dichlorobenzene	146	9.447	9.435	0.012	97	817542	8.75	
101 4-Isopropyltoluene	119	9.494	9.494	0.0	91	1367390	9.36	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	90	825238	8.48	
103 1,2,3-Trimethylbenzene	105	9.589	9.578	0.011	97	1511079	9.67	
105 n-Butylbenzene	91	9.886	9.886	0.0	97	1123896	8.90	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	83	832670	8.89	
107 1,2-Dibromo-3-Chloropropane	157	10.657	10.657	0.0	80	66129	10.6	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	93	550434	8.36	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	91	239363	6.71	
111 Naphthalene	128	11.700	11.700	0.0	97	1271648	9.62	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	94	507269	8.51	
S 137 Trihalomethanes, Total	1				0		36.6	
S 11 1,2-Dichloroethene, Total	96				0		18.6	
S 114 Xylenes, Total	106				0		27.3	

Report Date: 01-May-2012 11:13:58

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3088.D

Injection Date: 29-Apr-2012 15:55:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

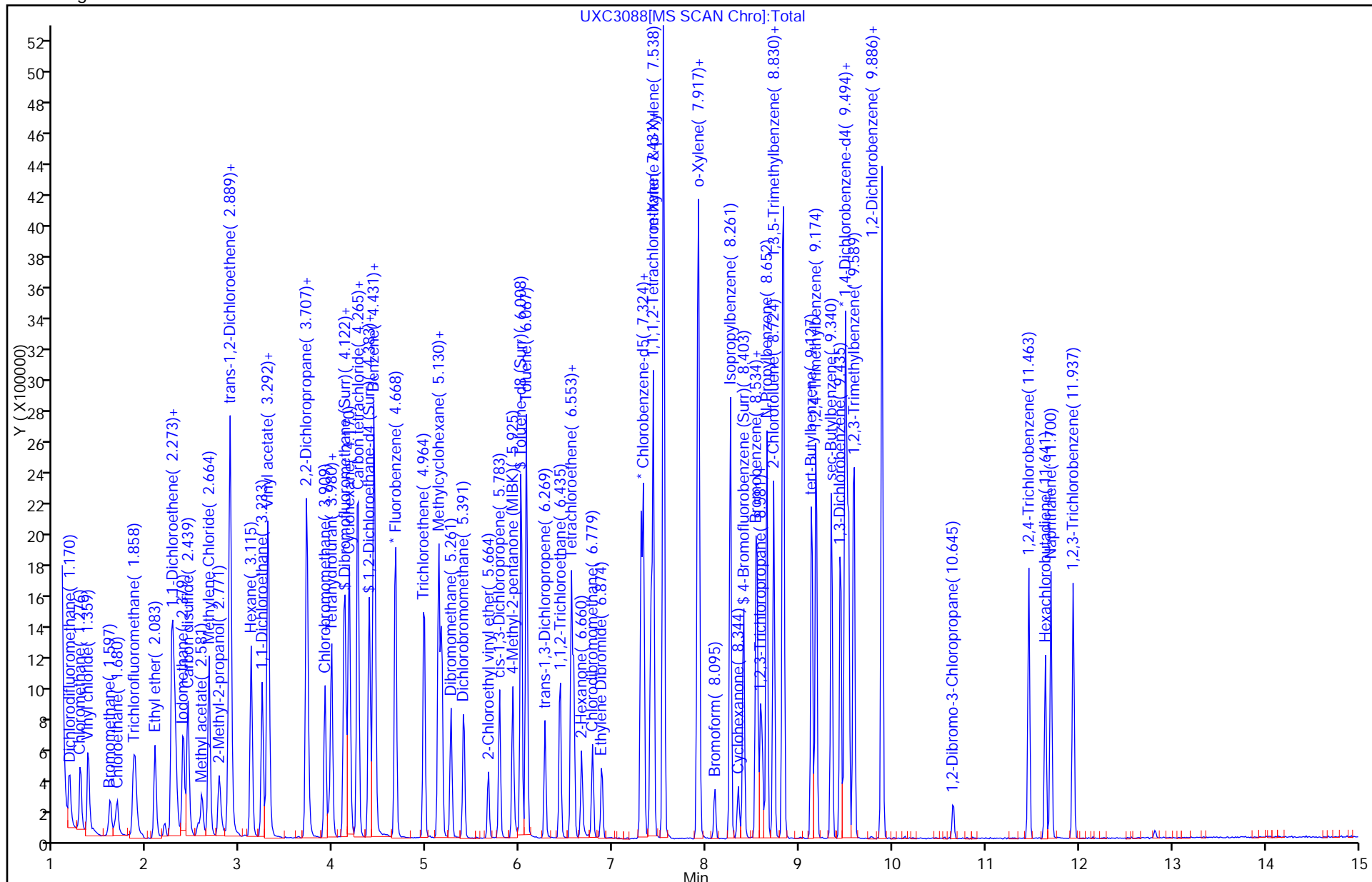
Lims Sample ID: 14

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Lab Sample ID: CCVIS 240-49717/2 Calibration Date: 07/03/2012 15:01

Instrument ID: A3UX15 Calib Start Date: 04/29/2012 11:24

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/29/2012 13:17

Lab File ID: UXC4861.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3114	0.3098		9.95	10.0	-0.5	50.0
Chloromethane	Ave	0.3810	0.3597	0.1000	9.44	10.0	-5.6	50.0
Vinyl chloride	Ave	0.3567	0.3603		10.1	10.0	1.0	20.0
Bromomethane	Ave	0.1736	0.1513		8.72	10.0	-12.8	50.0
Chloroethane	Ave	0.1942	0.2106		10.8	10.0	8.4	50.0
Trichlorofluoromethane	Ave	0.4220	0.4402		10.4	10.0	4.3	50.0
Acrolein	Ave	0.0381	0.0293		77.0	100	-23.0	50.0
1,1-Dichloroethene	Ave	0.2858	0.3090		10.8	10.0	8.1	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Lin1		0.2342		9.10	10.0	-9.0	50.0
Acetone	Lin1		0.1030		25.2	20.0	26.0	50.0
Iodomethane	Ave	0.5772	0.5504		9.54	10.0	-4.6	50.0
Carbon disulfide	Ave	0.8777	0.9485		10.8	10.0	8.1	50.0
Acetonitrile	Ave	0.0291	0.0358		123	100	23.2	50.0
Methyl acetate	Ave	0.2014	0.2360		23.4	20.0	17.1	50.0
Methylene Chloride	Lin1		0.4738		13.3	10.0	33.0	50.0
2-Methyl-2-propanol	Ave	0.0143	0.0157		220	200	9.9	50.0
Acrylonitrile	Ave	0.1004	0.1158		23.1	20.0	15.3	50.0
trans-1,2-Dichloroethene	Ave	0.3403	0.3515		10.3	10.0	3.3	50.0
Methyl tert-butyl ether	Ave	0.7717	0.7654		9.92	10.0	-0.8	50.0
Hexane	Lin1		0.0468		7.31	10.0	-26.9*	20.0
1,1-Dichloroethane	Ave	0.5887	0.6101	0.1000	10.4	10.0	3.6	50.0
Vinyl acetate	Lin1		0.0357		8.02	10.0	-19.8	50.0
2,2-Dichloropropane	Ave	0.3123	0.2785		8.92	10.0	-10.8	50.0
cis-1,2-Dichloroethene	Ave	0.3682	0.3769		10.2	10.0	2.4	50.0
2-Butanone (MEK)	Ave	0.1103	0.1154		20.9	20.0	4.6	50.0
Bromochloromethane	Ave	0.1758	0.1765		10.0	10.0	0.4	50.0
Tetrahydrofuran	Ave	0.0696	0.0716		10.3	10.0	2.8	50.0
Chloroform	Ave	0.6174	0.6178		10.0	10.0	0.0	20.0
1,1,1-Trichloroethane	Ave	0.4513	0.4374		9.69	10.0	-3.1	50.0
Cyclohexane	Lin1		0.4769		8.87	10.0	-11.3	50.0
1,1-Dichloropropene	Ave	0.4398	0.4154		9.45	10.0	-5.5	50.0
Carbon tetrachloride	Lin1		0.3708		9.29	10.0	-7.1	50.0
Benzene	Ave	1.299	1.239		9.54	10.0	-4.6	50.0
1,2-Dichloroethane	Ave	0.4524	0.4186		9.25	10.0	-7.5	50.0
Trichloroethene	Ave	0.3444	0.3094		8.99	10.0	-10.1	50.0
Methylcyclohexane	Lin1		0.3648		7.79	10.0	-22.1	50.0
1,2-Dichloropropane	Ave	0.2895	0.2864		9.90	10.0	-1.0	20.0
Dibromomethane	Ave	0.1633	0.1680		10.3	10.0	2.9	50.0
1,4-Dioxane	Qua		0.0021		366	500	-26.8	50.0
Bromodichloromethane	Ave	0.3269	0.3423		10.5	10.0	4.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Lab Sample ID: CCVIS 240-49717/2 Calibration Date: 07/03/2012 15:01

Instrument ID: A3UX15 Calib Start Date: 04/29/2012 11:24

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/29/2012 13:17

Lab File ID: UXC4861.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1050	0.1078		20.5	20.0	2.7	50.0
cis-1,3-Dichloropropene	Lin1		0.3146		8.83	10.0	-11.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1993	0.2088		21.0	20.0	4.8	50.0
Toluene	Ave	1.892	1.808		9.56	10.0	-4.4	20.0
trans-1,3-Dichloropropene	Ave	0.3683	0.3554		9.65	10.0	-3.5	50.0
Ethyl methacrylate	Ave	0.3922	0.3392		8.65	10.0	-13.5	50.0
1,1,2-Trichloroethane	Ave	0.3142	0.3034		9.66	10.0	-3.4	50.0
Tetrachloroethene	Ave	0.3846	0.3257		8.47	10.0	-15.3	50.0
1,3-Dichloropropane	Ave	0.5687	0.5373		9.45	10.0	-5.5	50.0
2-Hexanone	Ave	0.1861	0.1788		19.2	20.0	-3.9	50.0
Dibromochloromethane	Ave	0.3002	0.3313		11.0	10.0	10.4	50.0
1,2-Dibromoethane	Ave	0.3005	0.2971		9.89	10.0	-1.1	50.0
Chlorobenzene	Ave	1.171	1.071	0.3000	9.15	10.0	-8.5	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3850	0.4201		10.9	10.0	9.1	50.0
Ethylbenzene	Ave	0.6207	0.5760		9.28	10.0	-7.2	20.0
m-Xylene & p-Xylene	Ave	1.555	1.465		18.8	20.0	-5.8	50.0
o-Xylene	Ave	0.7828	0.7518		9.60	10.0	-4.0	50.0
Styrene	Ave	1.211	1.187		9.80	10.0	-2.0	50.0
Bromoform	Ave	0.1602	0.1792	0.1000	11.2	10.0	11.8	50.0
Isopropylbenzene	Ave	1.872	1.740		9.30	10.0	-7.0	50.0
Bromobenzene	Ave	0.9495	0.7580		7.98	10.0	-20.2	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7411	0.7117	0.3000	9.60	10.0	-4.0	50.0
1,2,3-Trichloropropane	Ave	0.2524	0.2216		8.78	10.0	-12.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1070	0.1539		14.4	10.0	43.8	50.0
N-Propylbenzene	Ave	0.9057	0.7525		8.31	10.0	-16.9	50.0
2-Chlorotoluene	Ave	0.8687	0.7585		8.73	10.0	-12.7	50.0
1,3,5-Trimethylbenzene	Ave	2.831	2.487		8.78	10.0	-12.2	50.0
4-Chlorotoluene	Ave	2.813	2.403		8.54	10.0	-14.6	50.0
tert-Butylbenzene	Ave	2.243	1.837		8.19	10.0	-18.1	50.0
1,2,4-Trimethylbenzene	Ave	2.927	2.527		8.63	10.0	-13.7	50.0
sec-Butylbenzene	Ave	3.074	2.583		8.40	10.0	-16.0	50.0
1,3-Dichlorobenzene	Ave	1.735	1.452		8.37	10.0	-16.3	50.0
p-Isopropyltoluene	Ave	2.715	2.251		8.29	10.0	-17.1	50.0
1,4-Dichlorobenzene	Ave	1.807	1.498		8.29	10.0	-17.1	50.0
1,2-Dichlorobenzene	Ave	1.740	1.531		8.80	10.0	-12.0	50.0
n-Butylbenzene	Ave	2.345	1.906		8.13	10.0	-18.7	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1164	0.1301		11.2	10.0	11.8	50.0
1,3,5-Trichlorobenzene	Ave	1.299	1.044		8.04	10.0	-19.6	50.0
1,2,4-Trichlorobenzene	Ave	1.224	0.9480		7.75	10.0	-22.5	50.0
Hexachlorobutadiene	Qua		0.4155		6.24	10.0	-37.6	50.0
Naphthalene	Ave	2.455	2.281		9.29	10.0	-7.1	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab Sample ID: CCVIS 240-49717/2 Calibration Date: 07/03/2012 15:01
Instrument ID: A3UX15 Calib Start Date: 04/29/2012 11:24
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/29/2012 13:17
Lab File ID: UXC4861.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Qua		0.8803		7.87	10.0	-21.3	50.0
Dibromofluoromethane (Surr)	Ave	0.3114	0.3362		9.61	8.90	8.0	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3753	0.3709		8.80	8.90	-1.2	50.0
Toluene-d8 (Surr)	Ave	1.619	1.723		9.47	8.90	6.4	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5090	0.5264		9.20	8.90	3.4	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4861.D
 Lims ID: CCVIS Client ID:
 Inject. Date: 03-Jul-2012 15:01:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: 240-0011300-002
 Misc. Info.: C20703A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 1
 Lims Batch ID: 49717 Lims Sample ID: 2
 Sublist: chrom-8260_15*sub20
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\8260_15.m
 Last Update: 05-Jul-2012 08:02:24 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-17

First Level Reviewer: evansle

Date: 03-Jul-2012 15:49:53

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.656	0.0	99	1204636	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	84	759249	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	94	456431	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	61	360402	9.61	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	397685	8.80	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	1164381	9.47	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.392	8.392	0.0	94	355674	9.20	
12 Dichlorodifluoromethane	85	1.158	1.158	0.0	87	373189	9.95	
13 Chloromethane	50	1.277	1.277	0.0	89	433279	9.44	
14 Vinyl chloride	62	1.360	1.360	0.0	83	434023	10.1	
15 Bromomethane	94	1.585	1.585	0.0	91	182275	8.72	
16 Chloroethane	64	1.668	1.668	0.0	94	253640	10.8	
18 Trichlorofluoromethane	101	1.858	1.858	0.0	91	530216	10.4	
20 Acrolein	56	2.178	2.178	0.0	94	353379	77.0	
21 1,1-Dichloroethene	96	2.261	2.261	0.0	90	372286	10.8	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.285	2.285	0.0	83	282167	9.10	
22 Acetone	43	2.308	2.308	0.0	97	248105	25.2	
24 Iodomethane	142	2.379	2.379	0.0	99	663024	9.54	
26 Carbon disulfide	76	2.427	2.427	0.0	99	1142586	10.8	
27 Acetonitrile	41	2.534	2.534	0.0	99	431203	123.2	
28 Methyl acetate	43	2.581	2.581	0.0	96	568562	23.4	
30 Methylene Chloride	84	2.652	2.652	0.0	88	570781	13.3	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	90	377826	219.8	
32 Acrylonitrile	53	2.866	2.866	0.0	100	278923	23.1	
33 trans-1,2-Dichloroethene	96	2.877	2.877	0.0	96	423465	10.3	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	90	921995	9.92	
35 Hexane	86	3.115	3.115	0.0	95	56341	7.31	
36 1,1-Dichloroethane	63	3.233	3.233	0.0	97	734941	10.4	
37 Vinyl acetate	86	3.281	3.281	0.0	97	43000	8.02	
42 cis-1,2-Dichloroethene	96	3.708	3.708	0.0	70	454010	10.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 2,2-Dichloropropane	77	3.708	3.708	0.0	54	335483	8.92	
41 2-Butanone (MEK)	43	3.731	3.731	0.0	99	278107	20.9	
47 Chlorobromomethane	128	3.909	3.909	0.0	93	212609	10.0	
48 Tetrahydrofuran	42	3.945	3.945	0.0	89	86238	10.3	
49 Chloroform	83	3.968	3.968	0.0	81	744262	10.0	
50 1,1,1-Trichloroethane	97	4.123	4.123	0.0	89	526851	9.69	
51 Cyclohexane	56	4.158	4.158	0.0	92	574450	8.87	
53 Carbon tetrachloride	117	4.253	4.253	0.0	73	446683	9.29	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	94	500446	9.45	
55 Benzene	78	4.431	4.431	0.0	94	1492971	9.54	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	90	504197	9.25	
60 Trichloroethene	130	4.965	4.965	0.0	94	372743	8.99	
63 Methylcyclohexane	83	5.131	5.131	0.0	89	439440	7.79	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	93	345052	9.90	
65 Dibromomethane	93	5.261	5.261	0.0	87	202367	10.3	
66 1,4-Dioxane	88	5.285	5.285	0.0	92	128851	365.8	
67 Dichlorobromomethane	83	5.391	5.391	0.0	93	412293	10.5	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	91	259693	20.5	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	93	378945	8.83	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	97	503040	21.0	
72 Toluene	91	6.067	6.067	0.0	97	1372605	9.56	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	90	269798	9.65	
74 Ethyl methacrylate	69	6.352	6.352	0.0	88	257544	8.65	
75 1,1,2-Trichloroethane	97	6.435	6.435	0.0	86	230390	9.66	
77 Tetrachloroethene	164	6.554	6.554	0.0	92	247302	8.47	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	89	407951	9.45	
78 2-Hexanone	43	6.660	6.660	0.0	98	271536	19.2	
79 Chlorodibromomethane	129	6.779	6.779	0.0	88	251549	11.0	
123 Ethylene Dibromide	107	6.874	6.874	0.0	99	225592	9.89	
82 Chlorobenzene	112	7.324	7.324	0.0	95	813466	9.15	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	88	318930	10.9	
84 Ethylbenzene	106	7.431	7.431	0.0	97	437323	9.28	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	92	2225270	18.8	
85 o-Xylene	106	7.905	7.905	0.0	97	570798	9.60	
86 Styrene	104	7.917	7.917	0.0	92	901099	9.80	
87 Bromoform	173	8.095	8.095	0.0	98	136026	11.2	
88 Isopropylbenzene	105	8.261	8.261	0.0	96	1321220	9.30	
91 Bromobenzene	156	8.534	8.534	0.0	81	345953	7.98	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	95	324858	9.60	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	72	101161	8.78	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	41	70225	14.4	
94 N-Propylbenzene	120	8.653	8.653	0.0	97	343446	8.31	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	346202	8.73	
96 1,3,5-Trimethylbenzene	105	8.819	8.819	0.0	89	1135179	8.78	
104 4-Chlorotoluene	91	8.830	8.830	0.0	98	1096693	8.54	
97 tert-Butylbenzene	119	9.127	9.127	0.0	90	838457	8.19	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	97	1153457	8.63	
99 sec-Butylbenzene	105	9.340	9.340	0.0	94	1178841	8.40	
100 1,3-Dichlorobenzene	146	9.435	9.435	0.0	97	662765	8.37	
101 4-Isopropyltoluene	119	9.494	9.494	0.0	92	1027590	8.29	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	96	683678	8.29	
105 n-Butylbenzene	91	9.886	9.886	0.0	96	870151	8.13	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	86	698902	8.80	
107 1,2-Dibromo-3-Chloropropane	157	10.657	10.657	0.0	82	59384	11.2	
108 1,3,5-Trichlorobenzene	180	10.858	10.858	0.0	97	476514	8.04	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	92	432699	7.75	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	95	189659	6.24	
111 Naphthalene	128	11.700	11.700	0.0	96	1041124	9.29	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	93	401793	7.87	
S 137 Trihalomethanes, Total	1				0		42.7	
S 11 1,2-Dichloroethene, Total	96				0		20.6	
S 9 1,3-Dichloropropene, Total	75				0		18.5	
S 114 Xylenes, Total	106				0		28.5	

Report Date: 05-Jul-2012 08:02:24

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4861.D

Injection Date: 03-Jul-2012 15:01:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 49717

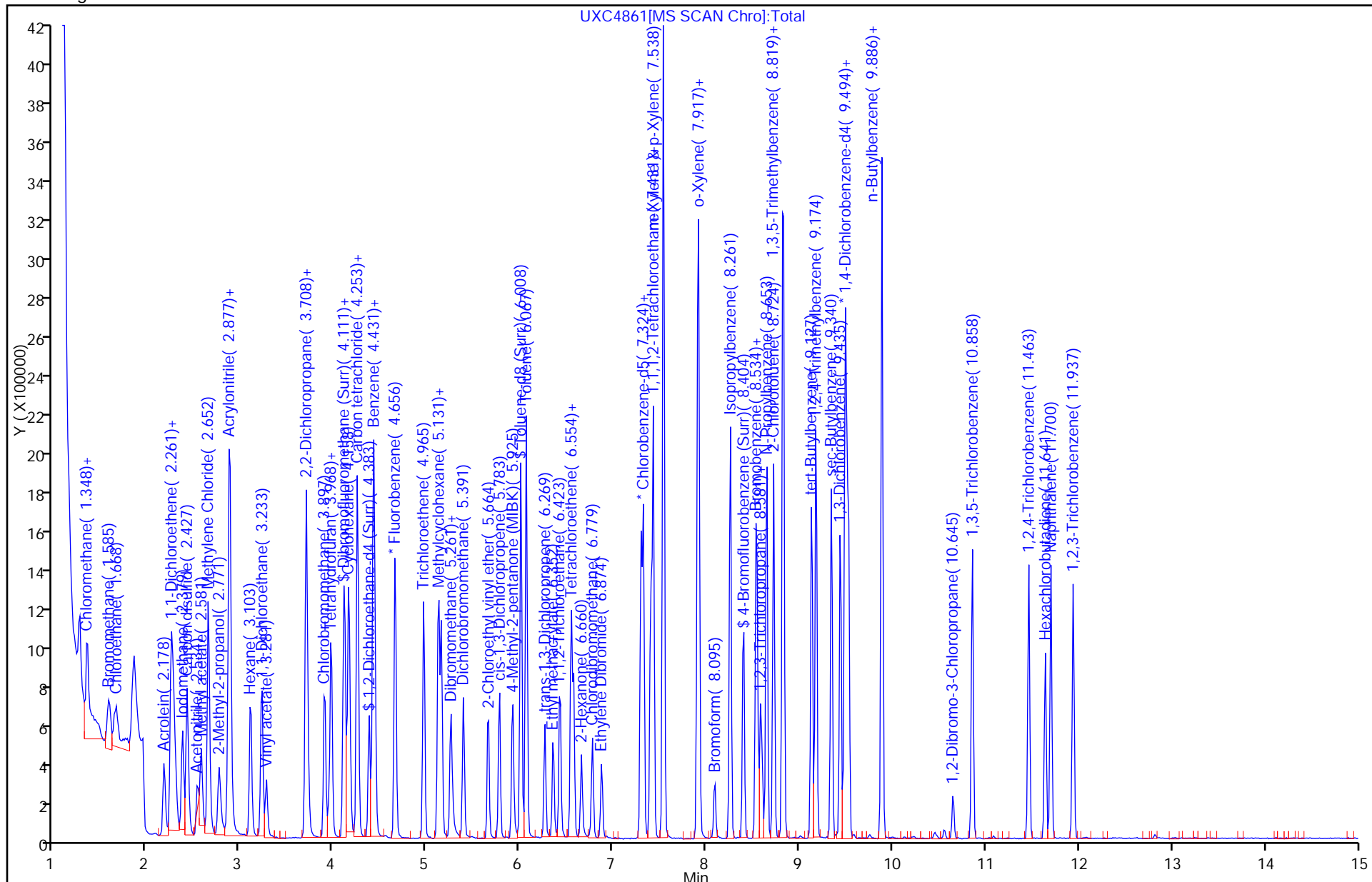
Lims Sample ID: 2

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Lab Sample ID: CCV 240-49717/3 Calibration Date: 07/03/2012 15:24
Instrument ID: A3UX15 Calib Start Date: 04/29/2012 11:24
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/29/2012 13:17
Lab File ID: UXC4862.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.3114	0.3103		8.87	8.90	-0.3	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3753	0.3543		8.40	8.90	-5.6	50.0
Toluene-d8 (Surr)	Ave	1.619	1.607		8.83	8.90	-0.8	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5090	0.5374		9.40	8.90	5.6	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4862.D
 Lims ID: ccv A9 L4 Client ID:
 Inject. Date: 03-Jul-2012 15:24:30 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: 240-0011300-003
 Misc. Info.: C20703A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 2
 Lims Batch ID: 49717 Lims Sample ID: 3
 Sublist: chrom-8260_15*sub6
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\8260_15.m
 Last Update: 05-Jul-2012 08:02:25 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-17

First Level Reviewer: evansle

Date: 03-Jul-2012 16:00:35

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.656	0.0	99	1301499	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	814196	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	94	442898	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	76	359473	8.87	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	410364	8.40	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	1164208	8.83	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	94	389381	9.40	
17 Dichlorofluoromethane	67	1.810	1.810	0.0	83	725316	11.6	
19 Ethyl ether	59	2.071	2.071	0.0	91	347255	11.2	
29 3-Chloro-1-propene	76	2.557	2.557	0.0	89	221300	11.2	
38 Isopropyl ether	87	3.292	3.292	0.0	95	1881672	50.8	
39 2-Chloro-1,3-butadiene	53	3.304	3.304	0.0	88	667056	9.90	
40 Tert-butyl ethyl ether	59	3.589	3.589	0.0	95	1053825	10.1	
44 Propionitrile	54	3.779	3.779	0.0	43	96223	23.4	
45 Ethyl acetate	43	3.779	3.779	0.0	97	509609	21.3	
46 Methacrylonitrile	41	3.897	3.897	0.0	95	218477	11.0	
54 Isobutyl alcohol	41	4.372	4.372	0.0	83	184187	256.1	
57 Tert-amyl methyl ether	73	4.526	4.526	0.0	92	849167	10.4	
58 n-Heptane	100	4.656	4.656	0.0	86	51692	8.58	
59 n-Butanol	56	4.929	4.929	0.0	90	121678	189.2	
64 Methyl methacrylate	41	5.261	5.261	0.0	90	225773	10.1	
68 2-Nitropropane	41	5.593	5.593	0.0	99	90283	25.7	
132 n-Butyl acetate	43	6.779	6.779	0.0	98	716335	20.7	
89 Cyclohexanone	55	8.344	8.344	0.0	93	265336	114.6	
103 1,2,3-Trimethylbenzene	105	9.589	9.589	0.0	98	1352315	10.5	
113 2-Methylnaphthalene	142	12.815	12.815	0.0	88	883425	15.9	

Report Date: 05-Jul-2012 08:02:25

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4862.D

Injection Date: 03-Jul-2012 15:24:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 49717

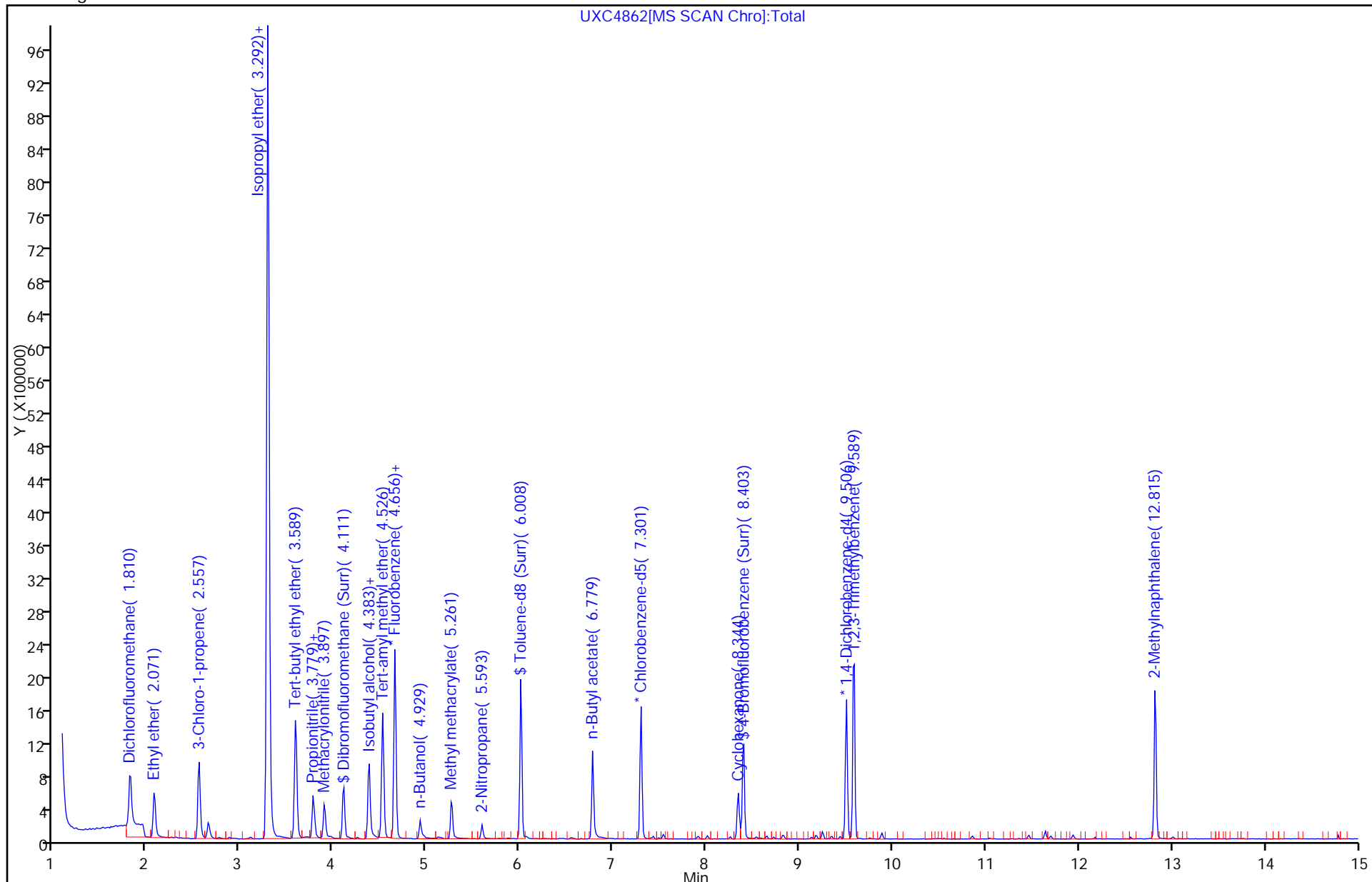
Lims Sample ID: 3

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: CCV 240-49717/3 Calibration Date: 07/03/2012 15:24
 Instrument ID: A3UX15 Calib Start Date: 04/29/2012 13:40
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/29/2012 15:33
 Lab File ID: UXC4862.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.4791	0.5573		11.6	10.0	16.3	50.0
Ethyl ether	Ave	0.2380	0.2668		11.2	10.0	12.1	50.0
3-Chloro-1-propene	Ave	0.1520	0.1700		11.2	10.0	11.9	50.0
Isopropyl ether	Ave	0.2846	0.2892		50.8	50.0	1.6	50.0
2-Chloro-1,3-butadiene	Ave	0.5177	0.5125		9.90	10.0	-1.0	50.0
Tert-butyl ethyl ether	Ave	0.8049	0.8097		10.1	10.0	0.6	50.0
Ethyl acetate	Ave	0.1834	0.1958		21.3	20.0	6.7	50.0
Propionitrile	Lin1		0.0370		23.4	20.0	17.0	50.0
Methacrylonitrile	Ave	0.1524	0.1679		11.0	10.0	10.1	50.0
Isobutyl alcohol	Lin1		0.0071		256	200	28.1	50.0
Tert-amyl methyl ether	Ave	0.6303	0.6525		10.4	10.0	3.5	50.0
n-Heptane	Ave	0.0463	0.0397		8.58	10.0	-14.2	50.0
n-Butanol	Qua		0.0047		189	200	-5.4	50.0
Methyl methacrylate	Ave	0.1713	0.1735		10.1	10.0	1.3	50.0
2-Nitropropane	Lin1		0.0347		25.7	20.0	28.5	50.0
Cyclohexanone	Ave	0.0523	0.0599		115	100	14.6	50.0
1,2,3-Trimethylbenzene	Ave	2.905	3.053		10.5	10.0	5.1	50.0
2-Methylnaphthalene	Ave	1.257	0.997		15.9	20.0	-20.7	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4862.D
 Lims ID: ccv A9 L4 Client ID:
 Inject. Date: 03-Jul-2012 15:24:30 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: 240-0011300-003
 Misc. Info.: C20703A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 2
 Lims Batch ID: 49717 Lims Sample ID: 3
 Sublist: chrom-8260_15*sub6
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\8260_15.m
 Last Update: 05-Jul-2012 08:02:25 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-17

First Level Reviewer: evansle

Date: 03-Jul-2012 16:00:35

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.656	0.0	99	1301499	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	814196	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	94	442898	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	76	359473	8.87	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	410364	8.40	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	1164208	8.83	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	94	389381	9.40	
17 Dichlorofluoromethane	67	1.810	1.810	0.0	83	725316	11.6	
19 Ethyl ether	59	2.071	2.071	0.0	91	347255	11.2	
29 3-Chloro-1-propene	76	2.557	2.557	0.0	89	221300	11.2	
38 Isopropyl ether	87	3.292	3.292	0.0	95	1881672	50.8	
39 2-Chloro-1,3-butadiene	53	3.304	3.304	0.0	88	667056	9.90	
40 Tert-butyl ethyl ether	59	3.589	3.589	0.0	95	1053825	10.1	
44 Propionitrile	54	3.779	3.779	0.0	43	96223	23.4	
45 Ethyl acetate	43	3.779	3.779	0.0	97	509609	21.3	
46 Methacrylonitrile	41	3.897	3.897	0.0	95	218477	11.0	
54 Isobutyl alcohol	41	4.372	4.372	0.0	83	184187	256.1	
57 Tert-amyl methyl ether	73	4.526	4.526	0.0	92	849167	10.4	
58 n-Heptane	100	4.656	4.656	0.0	86	51692	8.58	
59 n-Butanol	56	4.929	4.929	0.0	90	121678	189.2	
64 Methyl methacrylate	41	5.261	5.261	0.0	90	225773	10.1	
68 2-Nitropropane	41	5.593	5.593	0.0	99	90283	25.7	
132 n-Butyl acetate	43	6.779	6.779	0.0	98	716335	20.7	
89 Cyclohexanone	55	8.344	8.344	0.0	93	265336	114.6	
103 1,2,3-Trimethylbenzene	105	9.589	9.589	0.0	98	1352315	10.5	
113 2-Methylnaphthalene	142	12.815	12.815	0.0	88	883425	15.9	

Report Date: 05-Jul-2012 08:02:25

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4862.D

Injection Date: 03-Jul-2012 15:24:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 49717

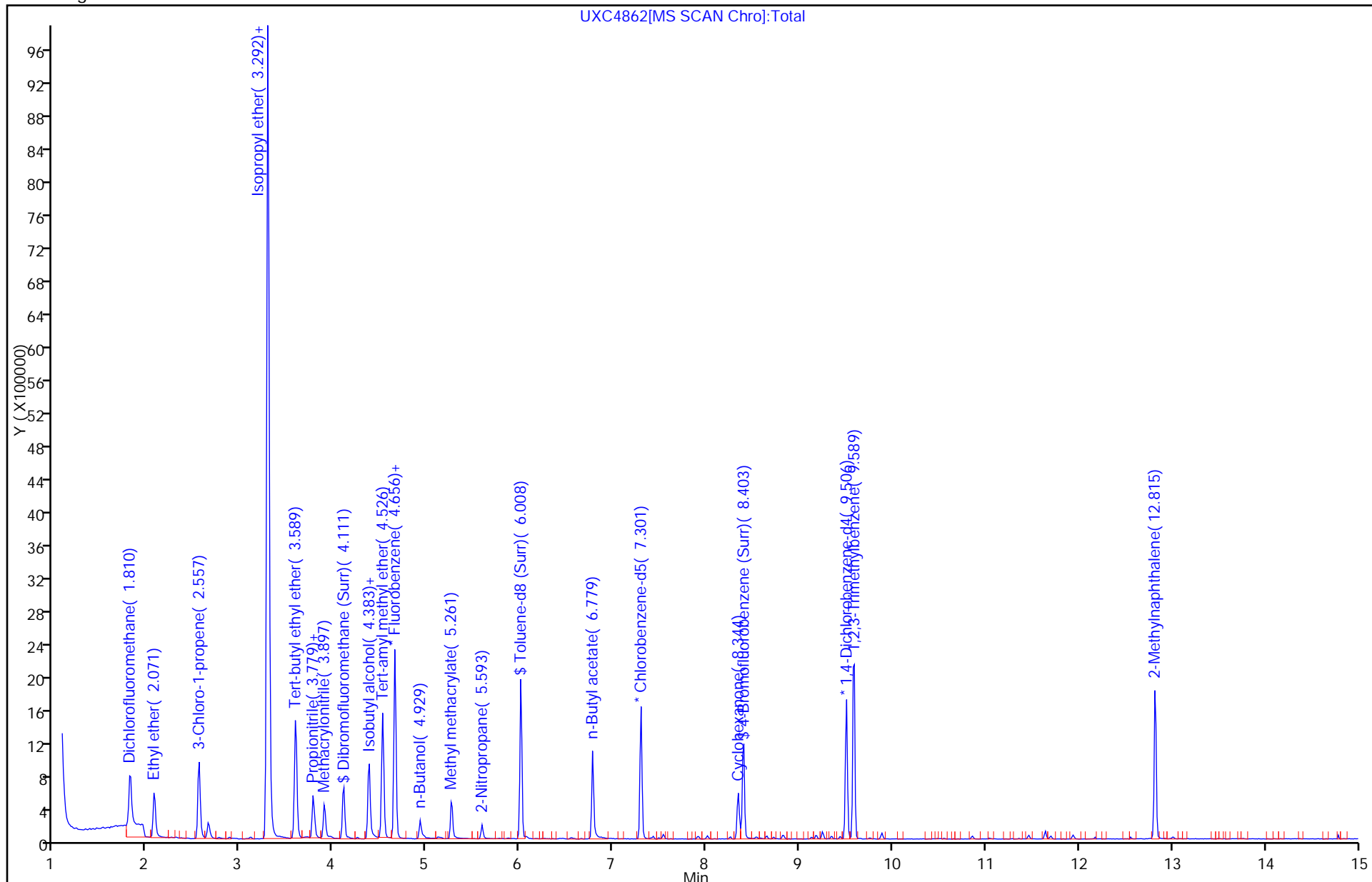
Lims Sample ID: 3

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\BFB989.D
Lims ID: BFB Client ID:
Inject. Date: 19-Jun-2012 12:15:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID:
Misc. Info.: J20618A,BFBUX11,,43582 =J20618A,BFBUX11,,43582
Operator: 43582 Instrument ID: A3UX11
Vol. Injected: 1.0000 ALS Bottle#: 9
Lims Batch ID: 47806 Lims Sample ID: 1
Detector: MS SCAN
Method: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\8260_11.m
Last Update: 20-Jun-2012 09:24:56 Calib Date: 19-Jun-2012 20:22:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: CORP-CTX-15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
\$ 134 BFB	95	4.196	4.196	0.0	0	1128551	0	

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\BFB989.D

Injection Date: 19-Jun-2012 12:15:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 47806

Lims Sample ID: 1

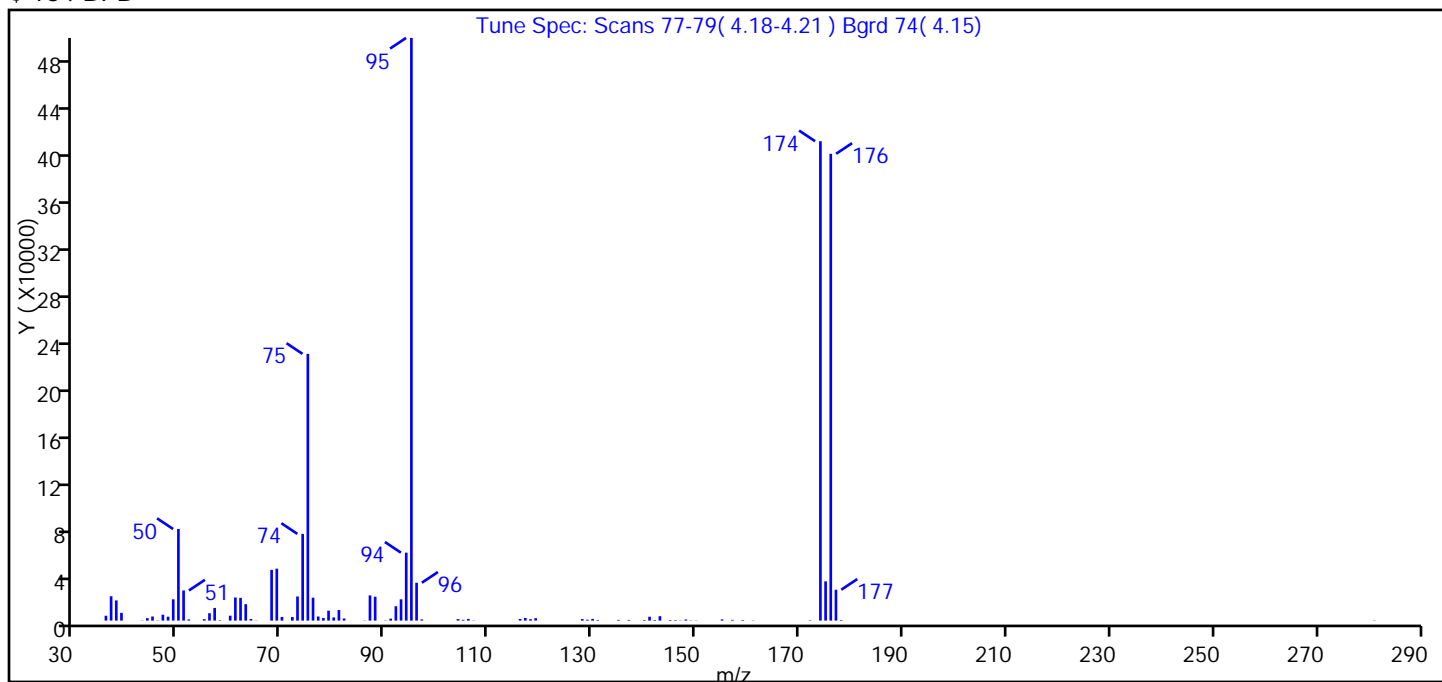
Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Tune Method: BFB Method 8260

\$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.72
75	30.00 - 60.00% of mass 95	45.78
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.27
175	5.00 - 9.00% of mass 174	6.73 (8.19)
176	95.00 - 101.00% of mass 174	80.11 (97.37)
177	5.00 - 9.00% of mass 176	5.30 (6.61)

Data File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\BFB989.D\8260_11.rsl\spectra.d
Injection Date: 19-Jun-2012 12:15:30
Spectrum: Tune Spec: Scans 77-79(4.18-4.21) Bgrd 74(4.15)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4125	63.00	13953	92.00	12201	142.00	528
37.00	20672	64.00	1331	93.00	18072	143.00	3747
38.00	17128	65.00	180	94.00	57680	145.00	494
39.00	6567	68.00	43064	95.00	494656	146.00	459
40.00	17	69.00	44112	96.00	32168	147.00	173
43.00	169	70.00	3100	97.00	997	148.00	940
44.00	2079	72.00	3012	104.00	1268	149.00	240
45.00	3475	73.00	20488	105.00	657	150.00	189
46.00	212	74.00	73624	106.00	1435	155.00	1031
47.00	4964	75.00	226432	107.00	214	157.00	605
48.00	3315	76.00	19448	116.00	1341	159.00	495
49.00	18072	77.00	3476	117.00	2235	161.00	202
50.00	77752	78.00	2197	118.00	1239	172.00	361
51.00	25568	79.00	8414	119.00	2031	174.00	406976
52.00	1019	80.00	2666	128.00	1319	175.00	33312
55.00	1218	81.00	8979	129.00	756	176.00	396288
56.00	6233	82.00	1804	130.00	1449	177.00	26208
57.00	10764	86.00	184	131.00	478	178.00	530
58.00	385	87.00	21376	135.00	584	281.00	200
60.00	4156	88.00	20272	137.00	561		
61.00	19608	90.00	219	140.00	485		
62.00	19312	91.00	1698	141.00	3303		

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\BFB005B.D
Lims ID: BFB Client ID:
Inject. Date: 05-Jul-2012 09:49:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID:
Misc. Info.: J20705A,BFBUX11,,43582 =J20705A,BFBUX11,,43582
Operator: 43582 Instrument ID: A3UX11
Vol. Injected: 1.0000 ALS Bottle#: 28
Lims Batch ID: 49859 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\8260_11.m
Last Update: 06-Jul-2012 08:49:46 Calib Date: 19-Jun-2012 20:22:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 05-Jul-2012 10:06:44

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
\$ 134 BFB	95	4.196	4.196	0.0	0	903236	0	

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\BFB005B.D

Injection Date: 05-Jul-2012 09:49:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 49859

Lims Sample ID: 1

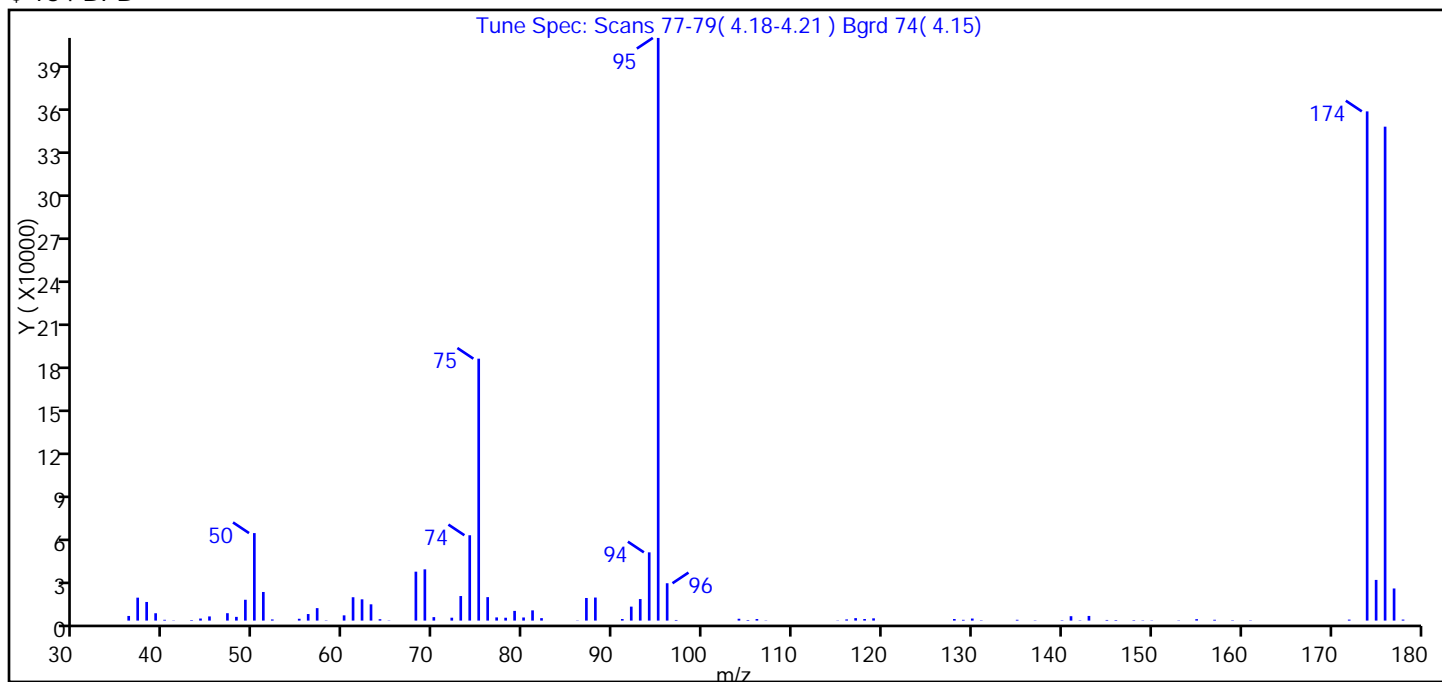
Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Tune Method: BFB Method 8260

\$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.02
75	30.00 - 60.00% of mass 95	44.95
96	5.00 - 9.00% of mass 95	6.41
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.39
175	5.00 - 9.00% of mass 174	6.98 (7.99)
176	95.00 - 101.00% of mass 174	84.77 (97.00)
177	5.00 - 9.00% of mass 176	5.51 (6.50)

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\BFB005B.D\8260_11.rsl\spectra.d
 Injection Date: 05-Jul-2012 09:49:30
 Spectrum: Tune Spec: Scans 77-79(4.18-4.21) Bgrd 74(4.15)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3189	62.00	14609	91.00	1078	137.00	195
37.00	15755	63.00	11176	92.00	9589	140.00	287
38.00	12798	64.00	961	93.00	14795	141.00	3018
39.00	5047	65.00	181	94.00	46864	142.00	214
40.00	550	68.00	33592	95.00	400064	143.00	3195
41.00	171	69.00	35192	96.00	25648	145.00	438
43.00	385	70.00	2386	97.00	425	146.00	370
44.00	1416	72.00	1989	104.00	1265	148.00	310
45.00	2876	73.00	16864	105.00	414	149.00	207
47.00	5083	74.00	58600	106.00	1069	150.00	176
48.00	2562	75.00	179840	107.00	176	153.00	196
49.00	14305	76.00	16103	115.00	170	155.00	986
50.00	60080	77.00	2189	116.00	815	157.00	569
51.00	19648	78.00	1967	117.00	1690	159.00	264
52.00	787	79.00	6663	118.00	1087	161.00	207
55.00	1255	80.00	2141	119.00	1548	172.00	668
56.00	4504	81.00	7027	128.00	1079	174.00	349632
57.00	8563	82.00	1694	129.00	529	175.00	27936
58.00	217	86.00	172	130.00	1411	176.00	339136
60.00	3599	87.00	15531	131.00	230	177.00	22056
61.00	16038	88.00	15835	135.00	557	178.00	695

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\BFB951.D
Lims ID: BFB Client ID:
Inject. Date: 29-Apr-2012 09:08:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID:
Misc. Info.: C20429A,BFBUX15,,43582
Operator: Instrument ID: A3UX15
Vol. Injected: 1.0000 ALS Bottle#: 28
Lims Batch ID: 42081 Lims Sample ID: 1
Detector: MS SCAN
Method: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\8260_15.m
Last Update: 30-Apr-2012 08:42:33 Calib Date: 29-Apr-2012 15:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: CORP-CTX-18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
\$ 4 BFB	95	3.026	3.026	0.0	0	290262	0	

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\BFB951.D

Injection Date: 29-Apr-2012 09:08:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 42081

Lims Sample ID: 1

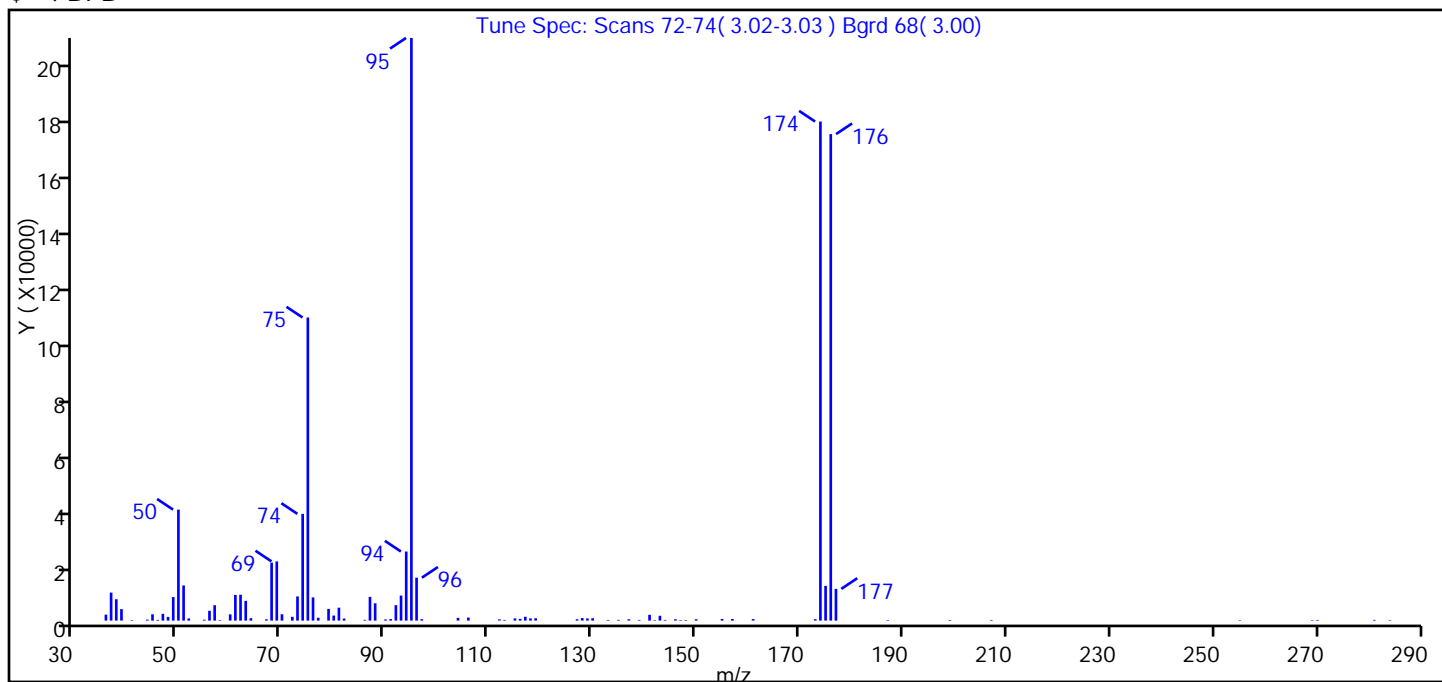
Operator ID:

Column Type: DB-624

Column Dia: 0.18 mm

Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.04
75	30.00 - 60.00% of mass 95	52.02
96	5.00 - 9.00% of mass 95	7.37
173	Less than 2.00% of mass 174	0.24 (0.28)
174	Greater than 50.00% of mass 95	85.65
175	5.00 - 9.00% of mass 174	5.95 (6.94)
176	95.00 - 101.00% of mass 174	83.50 (97.49)
177	5.00 - 9.00% of mass 176	5.44 (6.52)

Data File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\BFB951.D\8260_15.rslt\spectra.d

Injection Date: 29-Apr-2012 09:08:30

Spectrum: Tune Spec: Scans 72-74(3.02-3.03) Bgrd 68(3.00)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2086	67.00	462	96.00	15112	146.00	483
37.00	9862	68.00	20416	97.00	500	147.00	194
38.00	7524	69.00	20848	104.00	962	148.00	187
39.00	4050	70.00	2235	106.00	1071	150.00	488
41.00	181	72.00	1337	112.00	430	155.00	588
44.00	340	73.00	8512	113.00	224	157.00	574
45.00	2208	74.00	37592	115.00	772	161.00	534
46.00	255	75.00	106736	116.00	605	173.00	495
47.00	2388	76.00	8172	117.00	1353	174.00	175744
48.00	1293	77.00	1002	118.00	771	175.00	12205
49.00	8276	79.00	4113	119.00	828	176.00	171328
50.00	39072	80.00	1777	127.00	477	177.00	11168
51.00	12375	81.00	4543	128.00	901	187.00	191
52.00	770	82.00	724	129.00	761	199.00	217
55.00	314	86.00	272	130.00	849	207.00	212
56.00	3461	87.00	8342	133.00	236	255.00	166
57.00	5410	88.00	6093	135.00	254	269.00	170
58.00	197	90.00	418	137.00	483	270.00	227
60.00	2190	91.00	534	139.00	231	281.00	245
61.00	9038	92.00	5439	141.00	2048	284.00	176
62.00	9108	93.00	8812	142.00	179		
63.00	6956	94.00	24328	143.00	1692		
64.00	859	95.00	205184	144.00	243		

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\BFB006C.D
Lims ID: BFB Client ID:
Inject. Date: 03-Jul-2012 14:39:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID:
Misc. Info.: C20703A,BFBUX15,,43582
Operator: Instrument ID: A3UX15
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 49717 Lims Sample ID: 1
Detector: MS SCAN
Method: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\8260_15.m
Last Update: 05-Jul-2012 08:02:24 Calib Date: 29-Apr-2012 15:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: CORP-CTX-17

First Level Reviewer: evansle

Date: 03-Jul-2012 15:03:32

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
\$ 4 BFB	95	3.032	3.032	0.0	0	348274	0	

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\BFB006C.D

Injection Date: 03-Jul-2012 14:39:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 49717

Lims Sample ID: 1

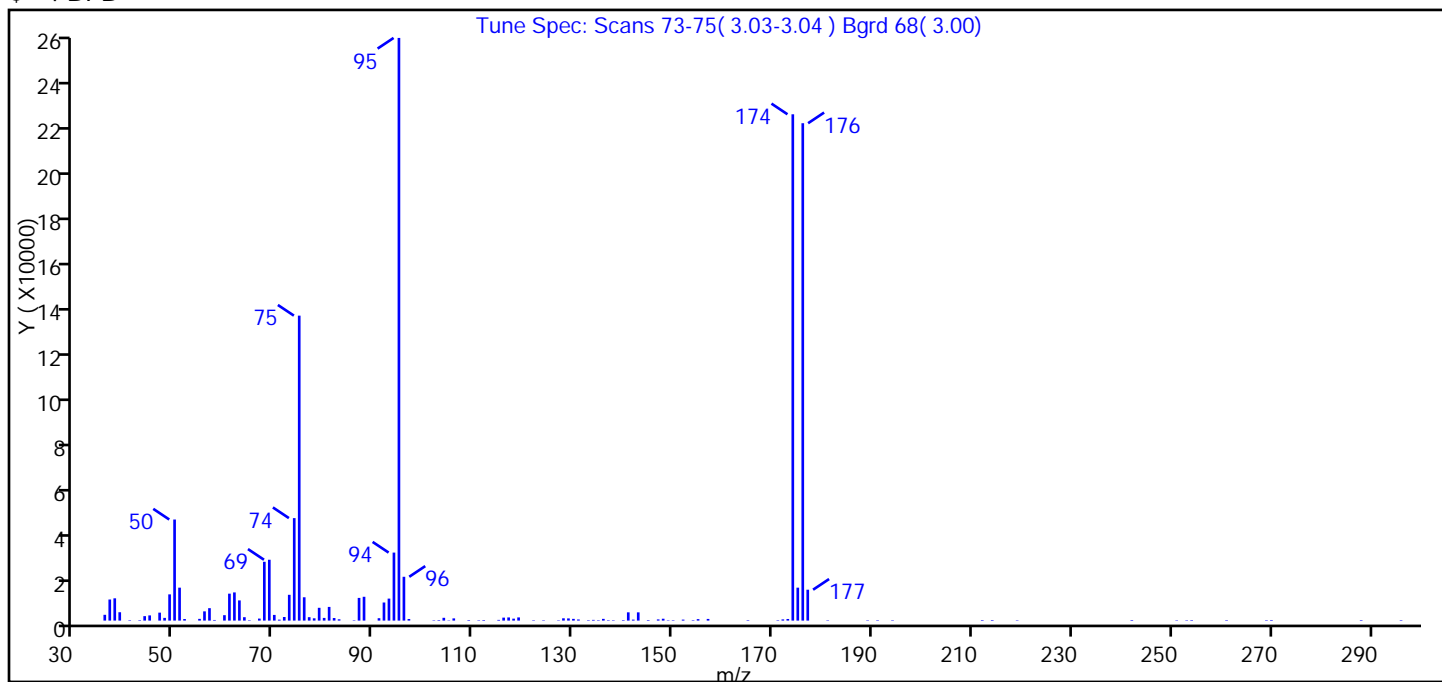
Operator ID:

Column Type: DB-624

Column Dia: 0.18 mm

Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.35
75	30.00 - 60.00% of mass 95	52.34
96	5.00 - 9.00% of mass 95	7.52
173	Less than 2.00% of mass 174	0.28 (0.32)
174	Greater than 50.00% of mass 95	86.90
175	5.00 - 9.00% of mass 174	5.65 (6.50)
176	95.00 - 101.00% of mass 174	85.36 (98.23)
177	5.00 - 9.00% of mass 176	5.30 (6.21)

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\BFB006C.D\8260_15.rsl\spectra.d
Injection Date: 03-Jul-2012 14:39:30
Spectrum: Tune Spec: Scans 73-75(3.03-3.04) Bgrd 68(3.00)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2525	72.00	1568	112.00	256	154.00	206
37.00	9211	73.00	11262	115.00	307	155.00	642
38.00	9727	74.00	44760	116.00	1297	157.00	728
39.00	3653	75.00	133184	117.00	1382	165.00	219
41.00	206	76.00	10188	118.00	850	171.00	201
43.00	215	77.00	1493	119.00	1392	172.00	521
44.00	1947	78.00	1004	122.00	189	173.00	706
45.00	2273	79.00	5585	124.00	180	174.00	221120
47.00	3475	80.00	1171	127.00	166	175.00	14382
48.00	1187	81.00	5975	128.00	997	176.00	217216
49.00	11454	82.00	1125	129.00	954	177.00	13490
50.00	44144	83.00	567	130.00	755	181.00	177
51.00	14385	86.00	188	131.00	492	189.00	175
52.00	682	87.00	9906	133.00	207	191.00	205
55.00	759	88.00	10401	134.00	312	194.00	193
56.00	4035	91.00	1043	135.00	201	212.00	249
57.00	5429	92.00	7904	136.00	757	214.00	259
58.00	275	93.00	9605	137.00	206	219.00	173
60.00	2367	94.00	29704	138.00	189	242.00	253
61.00	11764	95.00	254464	140.00	238	251.00	175
62.00	12307	96.00	19136	141.00	3611	253.00	181
63.00	8816	97.00	696	142.00	430	254.00	236
64.00	1488	102.00	173	143.00	3602	261.00	217
65.00	198	103.00	241	145.00	251	269.00	207
67.00	878	104.00	1221	147.00	518	270.00	264
68.00	25680	105.00	139	148.00	814	288.00	236
69.00	26576	106.00	965	149.00	169	296.00	215
70.00	2478	109.00	239	150.00	197		
71.00	420	111.00	180	152.00	428		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-49717/5

Matrix: Water Lab File ID: UXC4864.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 07/03/2012 16:09

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
75-00-3	Chloroethane	1.0	U	1.0	0.29
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
75-43-4	Dichlorofluoromethane	2.0	U	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
87-68-3	Hexachlorobutadiene	0.441	J	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
75-09-2	Methylene Chloride	1.25		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-49717/5

Matrix: Water Lab File ID: UXC4864.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 07/03/2012 16:09

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
103-65-1	N-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.27
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.096
75-01-4	Vinyl chloride	1.0	U	1.0	0.22
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		66-117
1868-53-7	Dibromofluoromethane (Surr)	108		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		63-129
2037-26-5	Toluene-d8 (Surr)	102		74-115

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4864.D
 Lims ID: MB Client ID:
 Inject. Date: 03-Jul-2012 16:09:30 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: 240-0011300-005
 Misc. Info.: C20703A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 4
 Lims Batch ID: 49717 Lims Sample ID: 5
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\8260_15.m
 Last Update: 05-Jul-2012 08:02:25 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-17

First Level Reviewer: evansle

Date: 03-Jul-2012 16:49:18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.656	0.0	99	1146086	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	83	689237	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	93	374915	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.111	4.111	0.0	66	343245	9.62	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.383	4.383	0.0	0	399247	9.28	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	93	1014158	9.09	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.403	8.403	0.0	95	301212	8.59	
135 1,4-Dichlorobutane	1		0.000					
134 Chlorodifluoromethane TIC	1		0.000					
133 Benzyl chloride	126		0.000					
12 Dichlorodifluoromethane	85		1.158					
13 Chloromethane	50		1.277					
14 Vinyl chloride	62		1.360					
15 Bromomethane	94		1.585					
16 Chloroethane	64		1.668					
17 Dichlorofluoromethane	67		1.810					
18 Trichlorofluoromethane	101		1.858					
19 Ethyl ether	59		2.071					
20 Acrolein	56		2.178					
21 1,1-Dichloroethene	96		2.261					
23 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.285					
22 Acetone	43		2.308					
24 Iodomethane	142		2.379					
26 Carbon disulfide	76		2.427					
27 Acetonitrile	41		2.534					
29 3-Chloro-1-propene	76		2.557					
28 Methyl acetate	43		2.581					
30 Methylene Chloride	84	2.652	2.652	0.0	93	81458	1.25	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	67	9179	5.61	
25 Methylal	45		2.856					
32 Acrylonitrile	53		2.866					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		2.877					
34 Methyl tert-butyl ether	73		2.889					
35 Hexane	86		3.115					
36 1,1-Dichloroethane	63		3.233					
37 Vinyl acetate	86		3.281					
38 Isopropyl ether	87		3.292					
39 2-Chloro-1,3-butadiene	53		3.304					
40 Tert-butyl ethyl ether	59		3.589					
42 cis-1,2-Dichloroethene	96		3.708					
43 2,2-Dichloropropane	77		3.708					
41 2-Butanone (MEK)	43		3.731					
44 Propionitrile	54		3.779					
45 Ethyl acetate	43		3.779					
46 Methacrylonitrile	41		3.897					
47 Chlorobromomethane	128		3.909					
48 Tetrahydrofuran	42		3.945					
49 Chloroform	83		3.968					
50 1,1,1-Trichloroethane	97		4.123					
51 Cyclohexane	56		4.158					
53 Carbon tetrachloride	117		4.253					
52 1,1-Dichloropropene	75		4.253					
54 Isobutyl alcohol	41		4.372					
55 Benzene	78		4.431					
56 1,2-Dichloroethane	62		4.443					
57 Tert-amyl methyl ether	73		4.526					
58 n-Heptane	100		4.656					
59 n-Butanol	56		4.929					
60 Trichloroethene	130		4.965					
61 Ethyl acrylate	55		5.071					
63 Methylcyclohexane	83		5.131					
62 1,2-Dichloropropane	63		5.154					
64 Methyl methacrylate	41		5.261					
65 Dibromomethane	93		5.261					
66 1,4-Dioxane	88		5.285					
67 Dichlorobromomethane	83		5.391					
68 2-Nitropropane	41		5.593					
69 2-Chloroethyl vinyl ether	63		5.664					
70 cis-1,3-Dichloropropene	75		5.783					
71 4-Methyl-2-pentanone (MIBK)	43		5.925					
72 Toluene	91		6.067					
73 trans-1,3-Dichloropropene	75		6.269					
74 Ethyl methacrylate	69		6.352					
75 1,1,2-Trichloroethane	97		6.435					
77 Tetrachloroethene	164		6.554					
76 1,3-Dichloropropane	76		6.577					
78 2-Hexanone	43		6.660					
132 n-Butyl acetate	43		6.779					
79 Chlorodibromomethane	129		6.779					
123 Ethylene Dibromide	107		6.874					
80 Tetrahydrothiophene	60		7.255					
81 1-Chlorohexane	91		7.313					
82 Chlorobenzene	112		7.324					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
83 1,1,1,2-Tetrachloroethane	131		7.407					
84 Ethylbenzene	106		7.431					
10 m-Xylene & p-Xylene	91		7.538					
85 o-Xylene	106		7.905					
86 Styrene	104		7.917					
87 Bromoform	173		8.095					
88 Isopropylbenzene	105		8.261					
89 Cyclohexanone	55	8.344	8.344	0.0	76	11106	5.67	
91 Bromobenzene	156		8.534					
90 1,1,2,2-Tetrachloroethane	83		8.546					
92 1,2,3-Trichloropropane	110		8.581					
93 trans-1,4-Dichloro-2-butene	53		8.605					
94 N-Propylbenzene	120		8.653					
95 2-Chlorotoluene	126		8.724					
96 1,3,5-Trimethylbenzene	105		8.819					
104 4-Chlorotoluene	91		8.830					
97 tert-Butylbenzene	119		9.127					
98 1,2,4-Trimethylbenzene	105		9.174					
99 sec-Butylbenzene	105		9.340					
100 1,3-Dichlorobenzene	146		9.435					
101 4-Isopropyltoluene	119		9.494					
102 1,4-Dichlorobenzene	146		9.530					
103 1,2,3-Trimethylbenzene	105		9.589					
105 n-Butylbenzene	91	9.886	9.886	0.0	61	9316	0.1060	
106 1,2-Dichlorobenzene	146		9.886					
107 1,2-Dibromo-3-Chloropropane	157		10.657					
108 1,3,5-Trichlorobenzene	180		10.858					
109 1,2,4-Trichlorobenzene	180		11.463					
110 Hexachlorobutadiene	225	11.641	11.641	0.0	51	10816	0.4408	
111 Naphthalene	128	11.700	11.700	0.0	51	16725	0.1817	
112 1,2,3-Trichlorobenzene	180		11.937					
113 2-Methylnaphthalene	142		12.815					
S 137 Trihalomethanes, Total	1		0.000					
S 11 1,2-Dichloroethene, Total	96		1.140					
S 9 1,3-Dichloropropene, Total	75		6.760					
S 114 Xylenes, Total	106		16.530					
T 138 Butyl Methacrylate TIC	1		8.925					1
T 136 Hexachloroethane TIC	1		10.220					1

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4864.D

Injection Date: 03-Jul-2012 16:09:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 49717

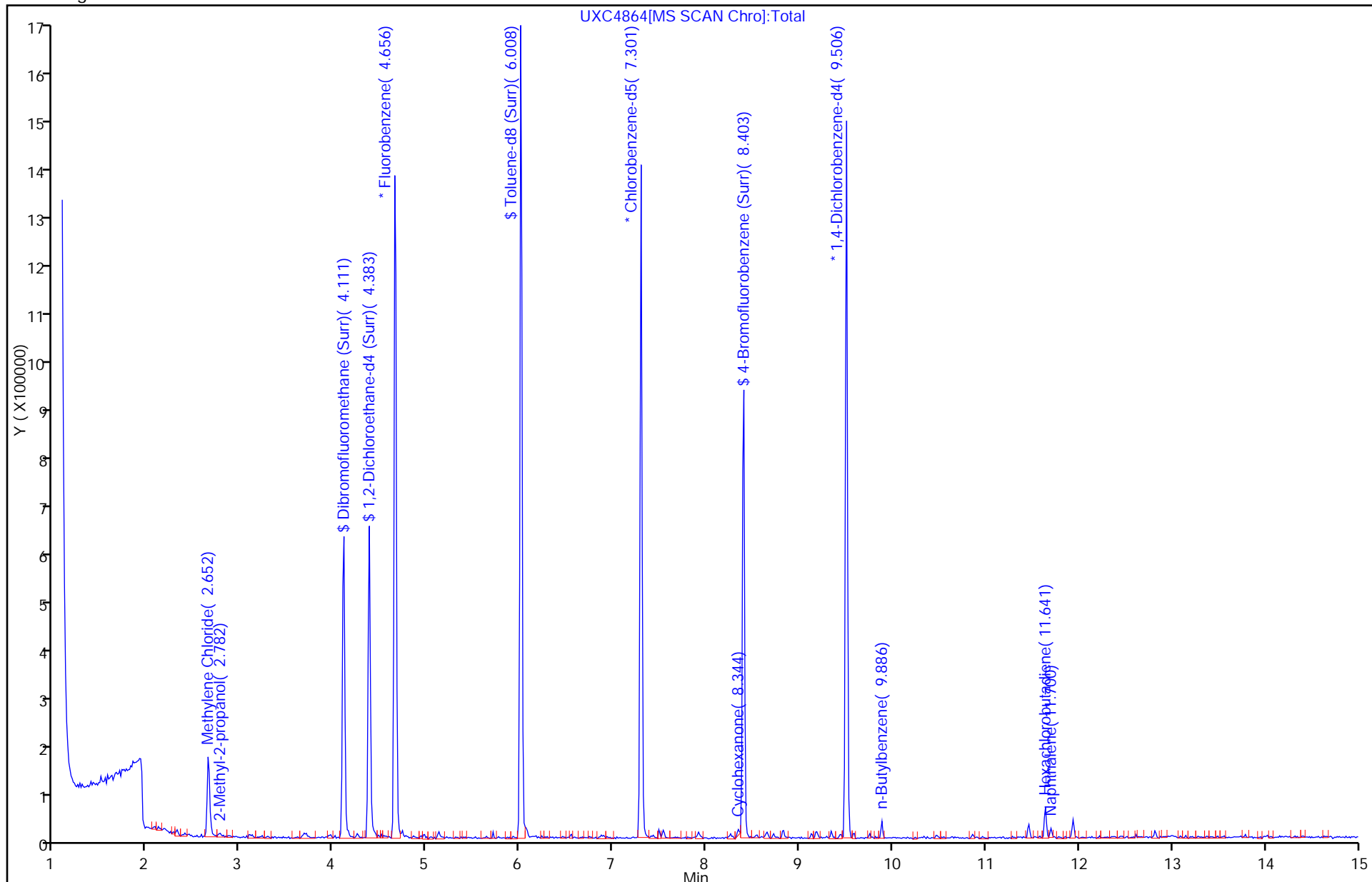
Lims Sample ID: 5

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



Data File:

\\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4864.D

Injection Date: 03-Jul-2012 16:09:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 49717

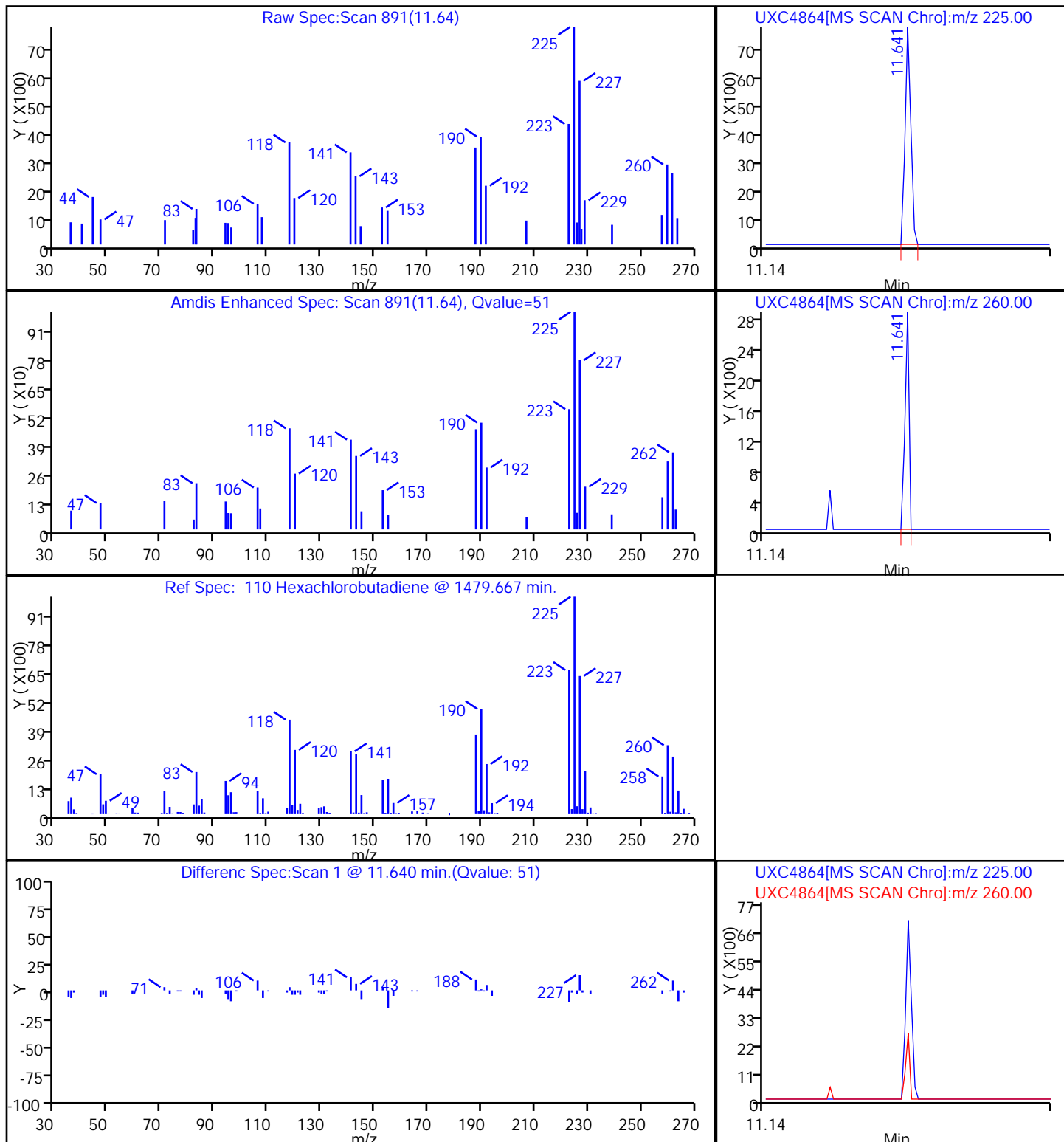
Lims Sample ID: 5

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

110 Hexachlorobutadiene



Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4864.D

Injection Date: 03-Jul-2012 16:09:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 49717

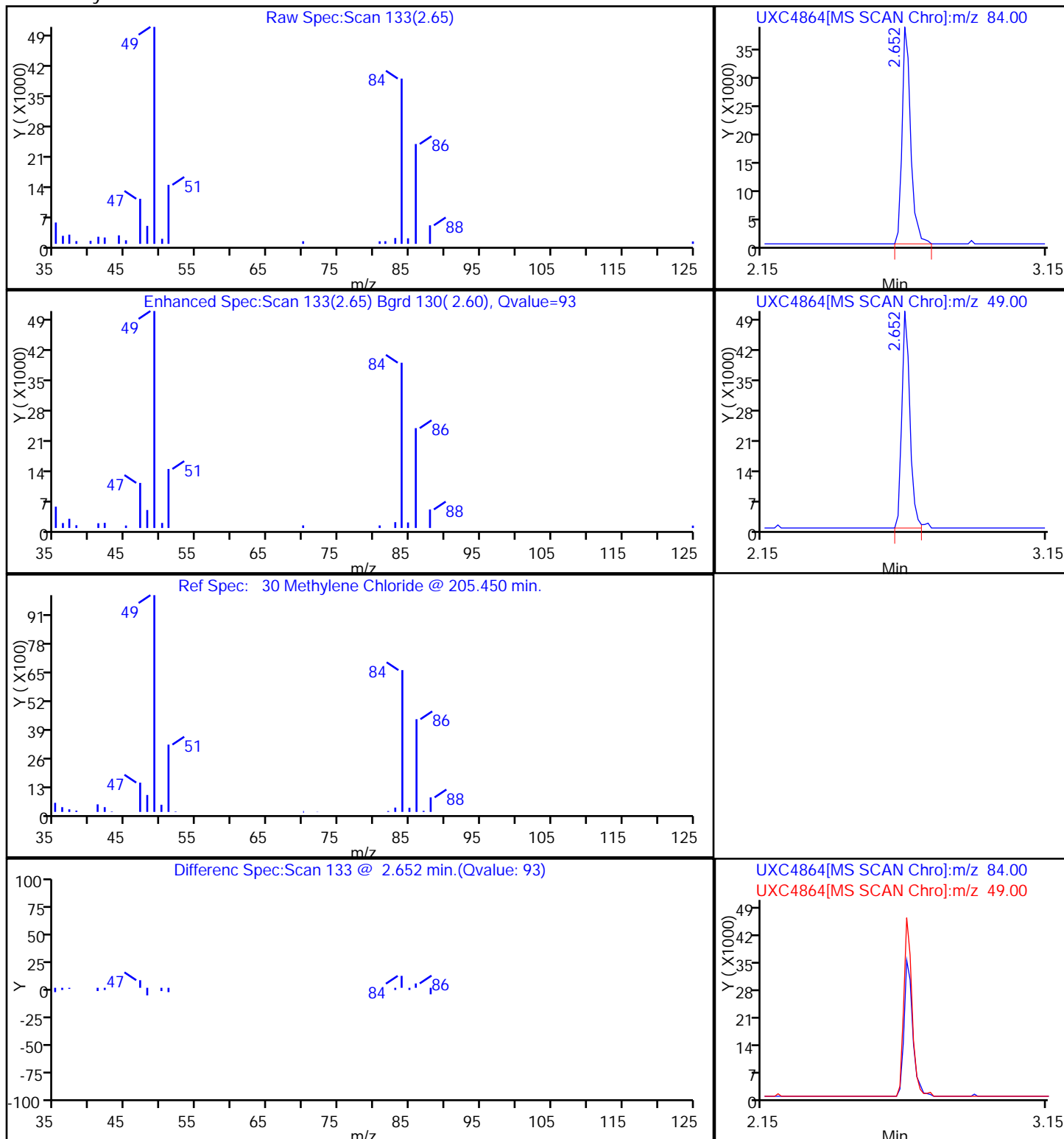
Lims Sample ID: 5

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-49859/5

Matrix: Water Lab File ID: UXJ5594.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 07/05/2012 11:44

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49859 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
75-00-3	Chloroethane	1.0	U	1.0	0.29
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
75-43-4	Dichlorofluoromethane	2.0	U	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
75-09-2	Methylene Chloride	1.24		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-49859/5
 Matrix: Water Lab File ID: UXJ5594.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 07/05/2012 11:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 49859 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
103-65-1	N-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.27
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.096
75-01-4	Vinyl chloride	1.0	U	1.0	0.22
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		66-117
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		63-129
2037-26-5	Toluene-d8 (Surr)	98		74-115

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5594.D
 Lims ID: MB Client ID:
 Inject. Date: 05-Jul-2012 11:44:30 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: 240-0011335-005
 Misc. Info.: J20705A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 5
 Lims Batch ID: 49859 Lims Sample ID: 5
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\8260_11.m
 Last Update: 06-Jul-2012 08:49:48 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 05-Jul-2012 12:06:05

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1295459	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	83	968162	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	94	310363	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	98	256330	8.15	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	91	300039	7.55	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	92	1179879	8.20	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	90	378361	8.98	
135 Chlorodifluoromethane TIC	1		0.000					
136 1,4-Dichlorobutane	1		0.000					
8 Dichlorodifluoromethane	85		1.553					
9 Chloromethane	50		1.684					
10 Vinyl chloride	62		1.778					
11 Bromomethane	94		2.074					
12 Chloroethane	64		2.157					
13 Dichlorofluoromethane	67		2.299					
14 Trichlorofluoromethane	101		2.370					
15 Ethyl ether	59		2.547					
16 Acrolein	56		2.642					
19 1,1-Dichloroethene	96		2.737					
17 Acetone	43		2.760					
18 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.796					
20 Methylal	45		2.856					
21 Iodomethane	142		2.926					
23 Carbon disulfide	76		2.973					
24 Acetonitrile	41		2.985					
25 Methyl acetate	43		3.032					
22 3-Chloro-1-propene	76		3.033					
26 Methylene Chloride	84	3.127	3.127	0.0	80	70349	1.24	
27 2-Methyl-2-propanol	59		3.198					
28 Acrylonitrile	53		3.316					
29 trans-1,2-Dichloroethene	96		3.352					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 Methyl tert-butyl ether	73		3.352					
31 Hexane	86		3.577					
32 1,1-Dichloroethane	63		3.695					
33 Vinyl acetate	86		3.719					
34 Isopropyl ether	87		3.743					
35 2-Chloro-1,3-butadiene	53		3.766					
37 Tert-butyl ethyl ether	59		4.038					
38 2-Butanone (MEK)	43		4.157					
39 2,2-Dichloropropane	77		4.168					
40 cis-1,2-Dichloroethene	96		4.168					
41 Ethyl acetate	43		4.204					
36 Propionitrile	54		4.204					
42 Methacrylonitrile	41		4.334					
43 Chlorobromomethane	128		4.358					
44 Tetrahydrofuran	42	4.405	4.405	0.0	57	4354	0.5178	
45 Chloroform	83		4.417					
46 1,1,1-Trichloroethane	97		4.594					
47 Cyclohexane	56		4.654					
48 1,1-Dichloropropene	75		4.725					
49 Carbon tetrachloride	117		4.736					
50 Isobutyl alcohol	41		4.772					
52 Benzene	78		4.890					
51 1,2-Dichloroethane	62		4.890					
53 Tert-amyl methyl ether	73		4.973					
54 n-Heptane	100		5.103					
55 n-Butanol	56		5.328					
56 Trichloroethene	130		5.435					
57 Ethyl acrylate	55		5.567					
58 Methylcyclohexane	83		5.612					
59 1,2-Dichloropropane	63		5.612					
60 Methyl methacrylate	41		5.695					
61 Dibromomethane	93		5.707					
62 1,4-Dioxane	88		5.719					
63 Dichlorobromomethane	83		5.837					
64 2-Nitropropane	41		6.026					
65 2-Chloroethyl vinyl ether	63		6.085					
66 cis-1,3-Dichloropropene	75		6.227					
67 4-Methyl-2-pentanone (MIBK)	43		6.358					
68 Toluene	91		6.535					
69 trans-1,3-Dichloropropene	75		6.713					
70 Ethyl methacrylate	69		6.784					
71 1,1,2-Trichloroethane	97		6.878					
73 1,3-Dichloropropane	76		7.032					
72 Tetrachloroethene	164		7.032					
74 2-Hexanone	43		7.091					
132 n-Butyl acetate	43		7.210					
76 Chlorodibromomethane	129		7.245					
75 Tetrahydrothiophene	60		7.255					
77 Ethylene Dibromide	107		7.363					
78 1-Chlorohexane	91		7.778					
79 Chlorobenzene	112		7.813					
80 1,1,1,2-Tetrachloroethane	131		7.884					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
81 Ethylbenzene	106		7.908					
82 m-Xylene & p-Xylene	106		8.026					
83 o-Xylene	106		8.393					
84 Styrene	104		8.405					
85 Bromoform	173		8.582					
86 Isopropylbenzene	105		8.748					
87 Cyclohexanone	55		8.831					
88 1,1,2,2-Tetrachloroethane	83		9.020					
89 Bromobenzene	156		9.044					
90 1,2,3-Trichloropropane	110		9.067					
91 trans-1,4-Dichloro-2-butene	53		9.079					
92 N-Propylbenzene	120		9.150					
93 2-Chlorotoluene	126		9.233					
94 1,3,5-Trimethylbenzene	105		9.316					
95 4-Chlorotoluene	126		9.339					
96 tert-Butylbenzene	119		9.635					
97 1,2,4-Trimethylbenzene	105		9.683					
98 sec-Butylbenzene	105		9.860					
99 1,3-Dichlorobenzene	146		9.967					
100 4-Isopropyltoluene	119		10.002					
101 1,4-Dichlorobenzene	146		10.049					
102 1,2,3-Trimethylbenzene	105		10.109					
133 Benzyl chloride	126		10.180					
103 n-Butylbenzene	91		10.404					
104 1,2-Dichlorobenzene	146		10.428					
105 1,2-Dibromo-3-Chloropropane	157		11.185					
106 1,3,5-Trichlorobenzene	180		11.410					
107 1,2,4-Trichlorobenzene	180		12.025					
108 Hexachlorobutadiene	225		12.215					
109 Naphthalene	128		12.274					
110 1,2,3-Trichlorobenzene	180		12.522					
111 2-Methylnaphthalene	142		13.552					
S 138 Trihalomethanes, Total	1		0.000					
S 112 1,2-Dichloroethene, Total	96		1.140					
S 113 1,3-Dichloropropene, Total	75		6.760					
S 114 Xylenes, Total	106		16.530					
T 139 Butyl Methacrylate TIC	1		8.925					1
T 137 Hexachloroethane TIC	1		10.774					1

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 06-Jul-2012 08:49:49

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5594.D

Injection Date: 05-Jul-2012 11:44:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 49859

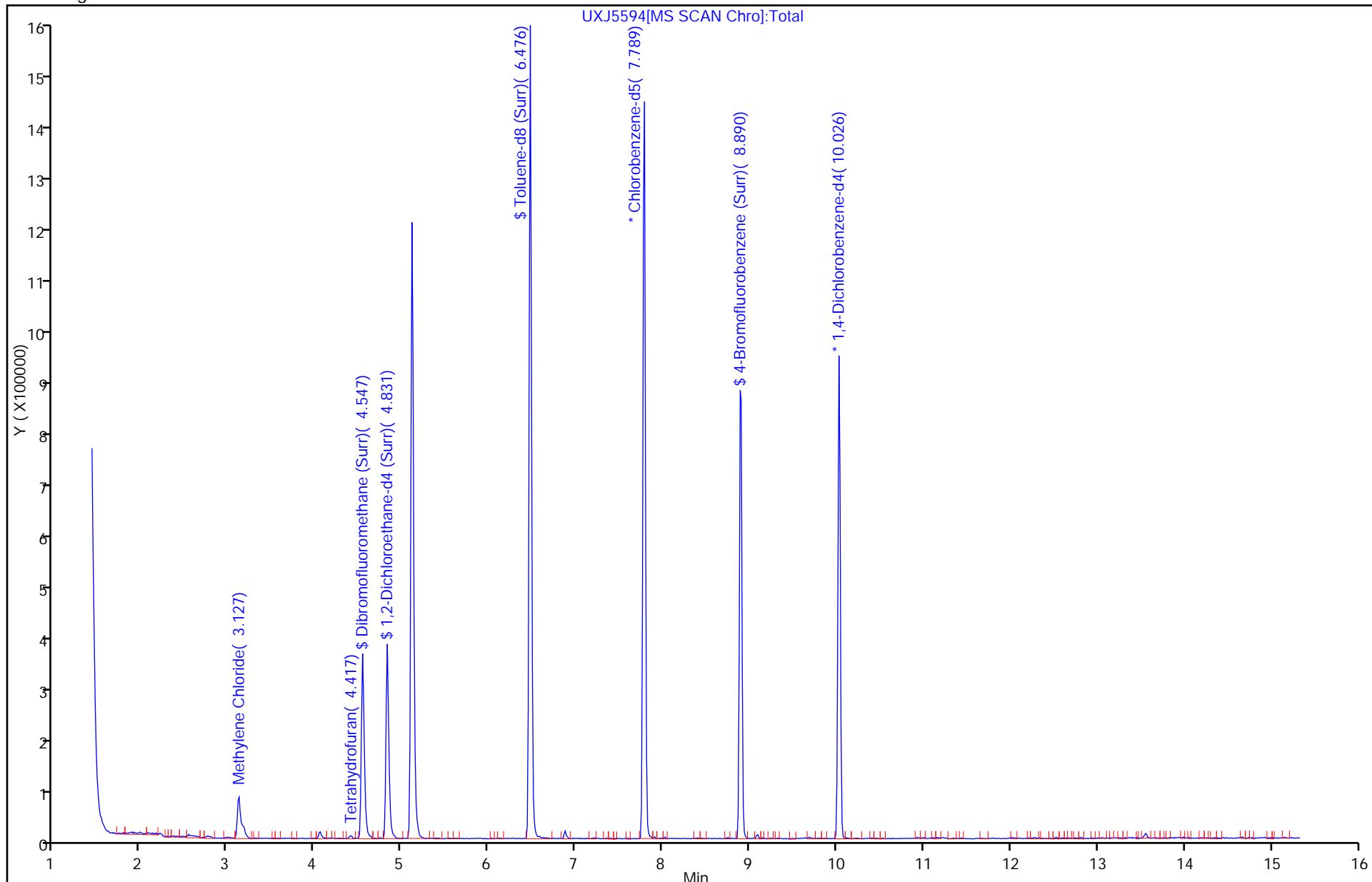
Lims Sample ID: 5

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



Report Date: 06-Jul-2012 08:49:49

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5594.D

Injection Date: 05-Jul-2012 11:44:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 49859

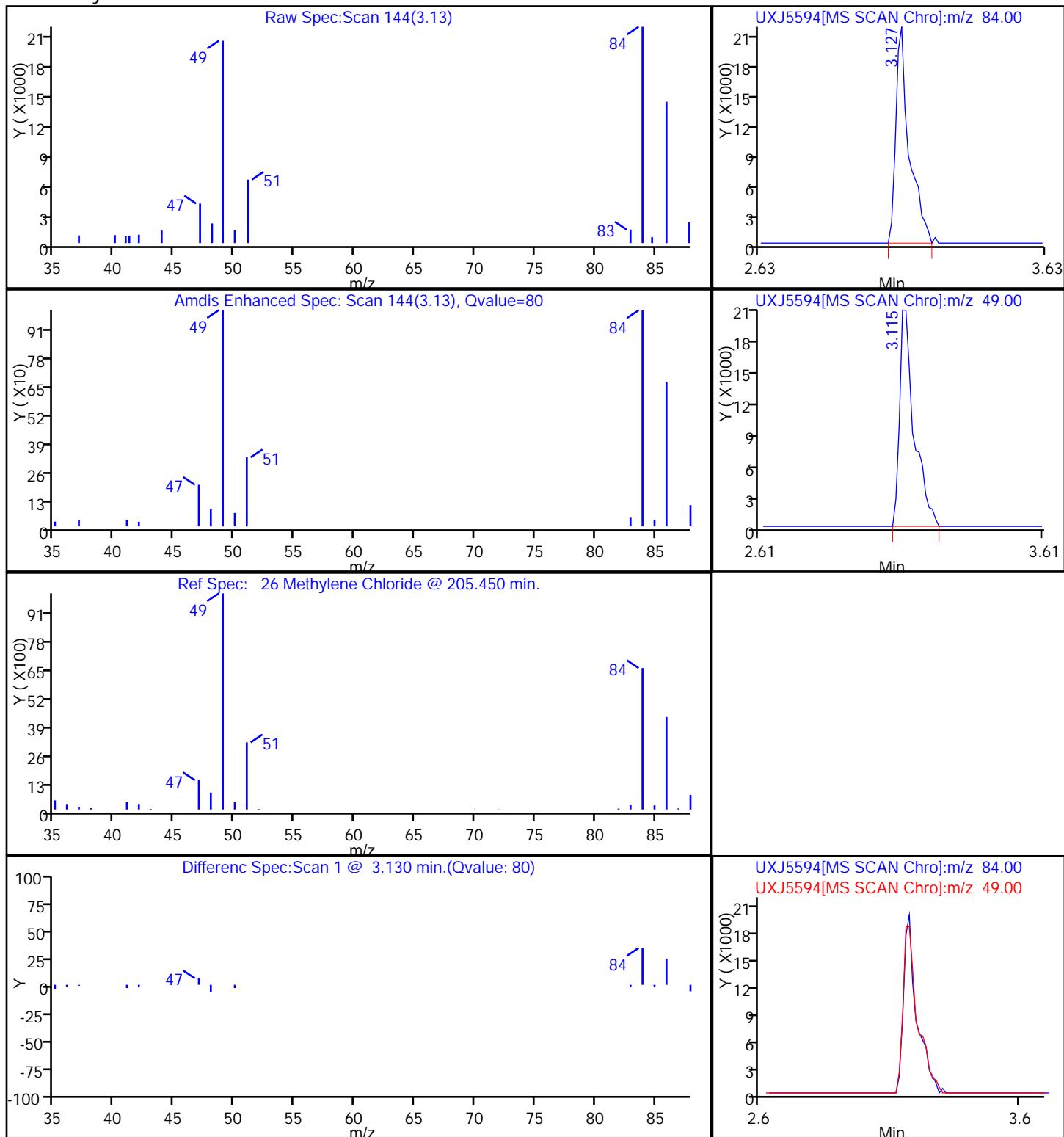
Lims Sample ID: 5

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

26 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 240-49717/4

Matrix: Water Lab File ID: UXC4863.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 07/03/2012 15:46

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	10.7		1.0	0.13
108-86-1	Bromobenzene	8.26		1.0	0.13
75-25-2	Bromoform	11.4		1.0	0.64
74-83-9	Bromomethane	10.6		1.0	0.41
56-23-5	Carbon tetrachloride	9.38		1.0	0.13
108-90-7	Chlorobenzene	9.40		1.0	0.15
124-48-1	Dibromochloromethane	10.4		1.0	0.18
75-00-3	Chloroethane	11.0		1.0	0.29
67-66-3	Chloroform	10.6		1.0	0.16
74-87-3	Chloromethane	9.35		1.0	0.30
95-49-8	2-Chlorotoluene	8.97		1.0	0.11
106-43-4	4-Chlorotoluene	9.01		1.0	0.18
156-59-2	cis-1,2-Dichloroethene	10.9		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	9.02		1.0	0.14
74-95-3	Dibromomethane	11.2		1.0	0.28
95-50-1	1,2-Dichlorobenzene	9.39		1.0	0.13
541-73-1	1,3-Dichlorobenzene	8.79		1.0	0.14
106-46-7	1,4-Dichlorobenzene	8.76		1.0	0.13
75-27-4	Bromodichloromethane	10.8		1.0	0.15
75-71-8	Dichlorodifluoromethane	8.51		1.0	0.31
75-34-3	1,1-Dichloroethane	11.6		1.0	0.15
107-06-2	1,2-Dichloroethane	10.4		1.0	0.22
75-35-4	1,1-Dichloroethene	10.9		1.0	0.19
78-87-5	1,2-Dichloropropane	10.0		1.0	0.18
142-28-9	1,3-Dichloropropane	9.80		1.0	0.16
594-20-7	2,2-Dichloropropane	9.61		1.0	0.13
563-58-6	1,1-Dichloropropene	9.80		1.0	0.13
100-41-4	Ethylbenzene	9.66		1.0	0.17
87-68-3	Hexachlorobutadiene	7.26		1.0	0.30
98-82-8	Isopropylbenzene	10.1		1.0	0.13
99-87-6	p-Isopropyltoluene	9.33		1.0	0.12
75-09-2	Methylene Chloride	13.1		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	19.4		2.0	0.24
91-20-3	Naphthalene	10.6		1.0	0.24
104-51-8	n-Butylbenzene	9.44		1.0	0.12
103-65-1	N-Propylbenzene	8.98		1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 240-49717/4

Matrix: Water Lab File ID: UXC4863.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 07/03/2012 15:46

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	10.5		1.0	0.14
135-98-8	sec-Butylbenzene	9.08		1.0	0.13
100-42-5	Styrene	9.96		1.0	0.11
98-06-6	tert-Butylbenzene	8.75		1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	11.6		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	10.2		1.0	0.18
127-18-4	Tetrachloroethene	8.84		1.0	0.29
108-88-3	Toluene	9.82		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	11.2		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	10.0		1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	9.86		1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	8.57		1.0	0.15
71-55-6	1,1,1-Trichloroethane	9.85		1.0	0.22
79-00-5	1,1,2-Trichloroethane	10.1		1.0	0.27
79-01-6	Trichloroethene	10.0		1.0	0.17
75-69-4	Trichlorofluoromethane	9.20		1.0	0.21
96-18-4	1,2,3-Trichloropropane	9.14		1.0	0.43
95-63-6	1,2,4-Trimethylbenzene	9.42		1.0	0.12
108-67-8	1,3,5-Trimethylbenzene	9.02		1.0	0.096
75-01-4	Vinyl chloride	9.65		1.0	0.22
74-97-5	Bromochloromethane	11.0		1.0	0.29
106-93-4	1,2-Dibromoethane	10.1		1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		66-117
1868-53-7	Dibromofluoromethane (Surr)	111		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4863.D
 Lims ID: LCS Client ID:
 Inject. Date: 03-Jul-2012 15:46:30 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: 240-0011300-004
 Misc. Info.: C20703A,8260LLUX15,,43582
 Operator: 43582 Instrument ID: A3UX15
 Vol. Injected: 1.0000 ALS Bottle#: 3
 Lims Batch ID: 49717 Lims Sample ID: 4
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\8260_15.m
 Last Update: 05-Jul-2012 08:02:25 Calib Date: 29-Apr-2012 15:33:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX15\20120429-9503.b\UXC3087.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-17

First Level Reviewer: evansle

Date: 03-Jul-2012 16:20:57

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	4.656	4.656	0.0	99	1197923	10.0	
* 2 Chlorobenzene-d5	117	7.301	7.301	0.0	84	756588	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.506	9.506	0.0	94	464763	10.0	
\$ 5 Dibromofluoromethane (Surr)	113	4.099	4.111	-0.012	58	369264	9.90	
\$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.384	4.383	0.001	0	398702	8.87	
\$ 7 Toluene-d8 (Surr)	98	6.008	6.008	0.0	83	1123587	9.17	
\$ 131 4-Bromofluorobenzene (Surr)	95	8.392	8.403	-0.011	93	377101	9.79	
12 Dichlorodifluoromethane	85	1.158	1.158	0.0	87	317357	8.51	
13 Chloromethane	50	1.265	1.277	-0.012	89	426590	9.35	
14 Vinyl chloride	62	1.348	1.360	-0.012	83	412200	9.65	
15 Bromomethane	94	1.585	1.585	0.0	90	220802	10.6	
16 Chloroethane	64	1.656	1.668	-0.012	95	255126	11.0	
18 Trichlorofluoromethane	101	1.846	1.858	-0.012	87	465148	9.20	
19 Ethyl ether	59	2.071	2.071	0.0	91	341191	12.0	
21 1,1-Dichloroethene	96	2.249	2.261	-0.012	90	374113	10.9	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.273	2.285	-0.012	86	285691	9.26	
22 Acetone	43	2.308	2.308	0.0	96	218815	22.2	
24 Iodomethane	142	2.379	2.379	0.0	98	737264	10.7	
26 Carbon disulfide	76	2.427	2.427	0.0	99	1162442	11.1	
28 Methyl acetate	43	2.581	2.581	0.0	97	330206	13.7	
30 Methylene Chloride	84	2.652	2.652	0.0	88	560505	13.1	
31 2-Methyl-2-propanol	59	2.771	2.771	0.0	90	409620	239.6	
33 trans-1,2-Dichloroethene	96	2.877	2.877	0.0	95	455645	11.2	
34 Methyl tert-butyl ether	73	2.889	2.889	0.0	90	980937	10.6	
35 Hexane	86	3.103	3.115	-0.012	95	66078	8.54	
36 1,1-Dichloroethane	63	3.221	3.233	-0.012	84	815139	11.6	
37 Vinyl acetate	86	3.281	3.281	0.0	96	54300	10.1	
38 Isopropyl ether	87	3.293	3.292	0.001	91	361453	10.6	
42 cis-1,2-Dichloroethene	96	3.708	3.708	0.0	70	482917	10.9	
43 2,2-Dichloropropane	77	3.708	3.708	0.0	54	359298	9.61	
41 2-Butanone (MEK)	43	3.731	3.731	0.0	100	286763	21.7	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
47 Chlorobromomethane	128	3.897	3.909	-0.012	98	231418	11.0	
48 Tetrahydrofuran	42	3.945	3.945	0.0	89	97491	11.7	
49 Chloroform	83	3.968	3.968	0.0	80	786854	10.6	
50 1,1,1-Trichloroethane	97	4.123	4.123	0.0	92	532515	9.85	
51 Cyclohexane	56	4.158	4.158	0.0	92	566340	8.80	
53 Carbon tetrachloride	117	4.253	4.253	0.0	72	448625	9.38	
52 1,1-Dichloropropene	75	4.253	4.253	0.0	93	516493	9.80	
54 Isobutyl alcohol	41	4.372	4.372	0.0	93	436617	650.1	
55 Benzene	78	4.431	4.431	0.0	92	1659201	10.7	
56 1,2-Dichloroethane	62	4.443	4.443	0.0	89	563824	10.4	
60 Trichloroethene	130	4.965	4.965	0.0	94	412779	10.0	
63 Methylcyclohexane	83	5.131	5.131	0.0	88	455377	8.10	
62 1,2-Dichloropropane	63	5.154	5.154	0.0	93	347879	10.0	
65 Dibromomethane	93	5.261	5.261	0.0	84	219317	11.2	
67 Dichlorobromomethane	83	5.391	5.391	0.0	99	422712	10.8	
69 2-Chloroethyl vinyl ether	63	5.664	5.664	0.0	89	119309	9.49	
70 cis-1,3-Dichloropropene	75	5.783	5.783	0.0	91	385711	9.02	
71 4-Methyl-2-pentanone (MIBK)	43	5.925	5.925	0.0	97	488453	20.5	
72 Toluene	91	6.067	6.067	0.0	97	1405955	9.82	
73 trans-1,3-Dichloropropene	75	6.269	6.269	0.0	94	278732	10.0	
75 1,1,2-Trichloroethane	97	6.423	6.435	-0.012	92	239432	10.1	
77 Tetrachloroethene	164	6.554	6.554	0.0	92	257170	8.84	
76 1,3-Dichloropropane	76	6.577	6.577	0.0	90	421784	9.80	
78 2-Hexanone	43	6.660	6.660	0.0	98	278681	19.8	
79 Chlorodibromomethane	129	6.779	6.779	0.0	89	236389	10.4	
123 Ethylene Dibromide	107	6.874	6.874	0.0	97	228779	10.1	
82 Chlorobenzene	112	7.324	7.324	0.0	95	832378	9.40	
83 1,1,1,2-Tetrachloroethane	131	7.407	7.407	0.0	87	338074	11.6	
84 Ethylbenzene	106	7.431	7.431	0.0	97	453593	9.66	
10 m-Xylene & p-Xylene	91	7.538	7.538	0.0	93	2282187	19.4	
85 o-Xylene	106	7.905	7.905	0.0	97	621533	10.5	
86 Styrene	104	7.917	7.917	0.0	92	912849	9.96	
87 Bromoform	173	8.095	8.095	0.0	93	138149	11.4	
88 Isopropylbenzene	105	8.261	8.261	0.0	95	1427811	10.1	
89 Cyclohexanone	55	8.344	8.344	0.0	92	358622	147.6	
91 Bromobenzene	156	8.534	8.534	0.0	80	364350	8.26	
90 1,1,2,2-Tetrachloroethane	83	8.546	8.546	0.0	86	351629	10.2	
92 1,2,3-Trichloropropane	110	8.581	8.581	0.0	81	107238	9.14	
93 trans-1,4-Dichloro-2-butene	53	8.605	8.605	0.0	59	114556	23.0	
94 N-Propylbenzene	120	8.653	8.653	0.0	97	377923	8.98	
95 2-Chlorotoluene	126	8.724	8.724	0.0	96	362109	8.97	
96 1,3,5-Trimethylbenzene	105	8.819	8.819	0.0	89	1186905	9.02	
104 4-Chlorotoluene	91	8.830	8.830	0.0	98	1177617	9.01	
97 tert-Butylbenzene	119	9.127	9.127	0.0	79	912425	8.75	
98 1,2,4-Trimethylbenzene	105	9.174	9.174	0.0	86	1281018	9.42	
99 sec-Butylbenzene	105	9.340	9.340	0.0	94	1296595	9.08	
100 1,3-Dichlorobenzene	146	9.435	9.435	0.0	98	708995	8.79	
101 4-Isopropyltoluene	119	9.483	9.494	-0.011	91	1177720	9.33	
102 1,4-Dichlorobenzene	146	9.530	9.530	0.0	90	736114	8.76	
103 1,2,3-Trimethylbenzene	105	9.578	9.589	-0.011	98	1398940	10.4	
105 n-Butylbenzene	91	9.886	9.886	0.0	97	1028994	9.44	
106 1,2-Dichlorobenzene	146	9.886	9.886	0.0	83	759015	9.39	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
107 1,2-Dibromo-3-Chloropropane	157	10.645	10.657	-0.012	78	67346	12.5	
109 1,2,4-Trichlorobenzene	180	11.463	11.463	0.0	92	487651	8.57	
110 Hexachlorobutadiene	225	11.641	11.641	0.0	91	222425	7.26	
111 Naphthalene	128	11.700	11.700	0.0	96	1215220	10.6	
112 1,2,3-Trichlorobenzene	180	11.937	11.937	0.0	96	497031	9.86	
S 137 Trihalomethanes, Total	1				0		43.2	
S 11 1,2-Dichloroethene, Total	96				0		22.1	
S 114 Xylenes, Total	106				0		29.9	

Report Date: 05-Jul-2012 08:02:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX15\20120703-11300.b\UXC4863.D

Injection Date: 03-Jul-2012 15:46:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX15

Lims Batch ID: 49717

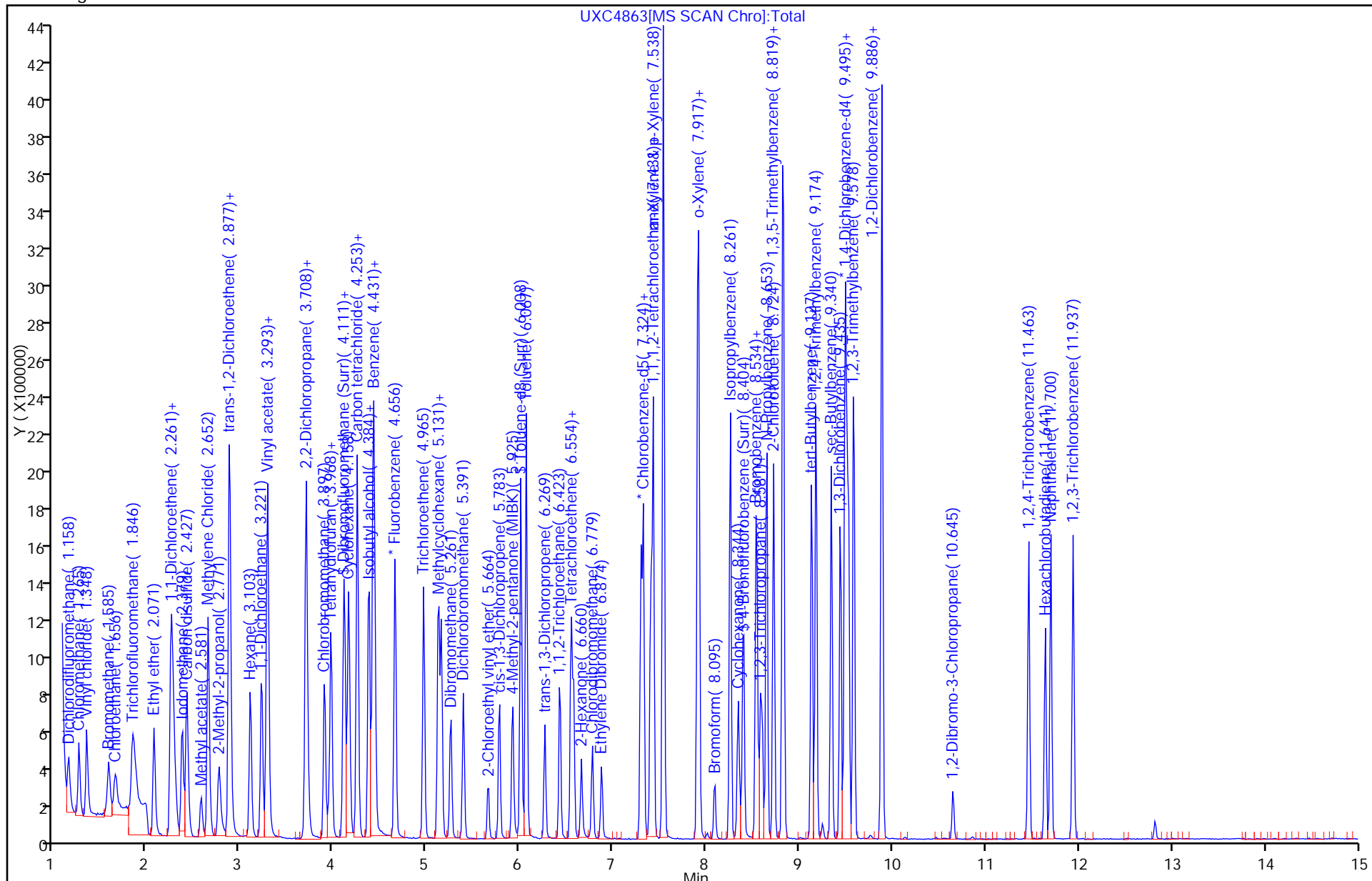
Lims Sample ID: 4

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 240-49859/4

Matrix: Water Lab File ID: UXJ5592.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 07/05/2012 10:59

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49859 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.91		1.0	0.13
108-86-1	Bromobenzene	10.6		1.0	0.13
75-25-2	Bromoform	10.8		1.0	0.64
74-83-9	Bromomethane	12.7		1.0	0.41
56-23-5	Carbon tetrachloride	9.93		1.0	0.13
108-90-7	Chlorobenzene	9.72		1.0	0.15
124-48-1	Dibromochloromethane	9.53		1.0	0.18
75-00-3	Chloroethane	10.6		1.0	0.29
67-66-3	Chloroform	9.55		1.0	0.16
74-87-3	Chloromethane	9.22		1.0	0.30
95-49-8	2-Chlorotoluene	10.5		1.0	0.11
106-43-4	4-Chlorotoluene	10.9		1.0	0.18
156-59-2	cis-1,2-Dichloroethene	9.90		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	9.60		1.0	0.14
74-95-3	Dibromomethane	10.3		1.0	0.28
95-50-1	1,2-Dichlorobenzene	9.48		1.0	0.13
541-73-1	1,3-Dichlorobenzene	9.77		1.0	0.14
106-46-7	1,4-Dichlorobenzene	9.57		1.0	0.13
75-27-4	Bromodichloromethane	10.1		1.0	0.15
75-71-8	Dichlorodifluoromethane	8.66		1.0	0.31
75-34-3	1,1-Dichloroethane	10.1		1.0	0.15
107-06-2	1,2-Dichloroethane	9.65		1.0	0.22
75-35-4	1,1-Dichloroethene	10.2		1.0	0.19
78-87-5	1,2-Dichloropropane	10.0		1.0	0.18
142-28-9	1,3-Dichloropropane	9.59		1.0	0.16
594-20-7	2,2-Dichloropropane	9.72		1.0	0.13
563-58-6	1,1-Dichloropropene	9.75		1.0	0.13
100-41-4	Ethylbenzene	9.57		1.0	0.17
87-68-3	Hexachlorobutadiene	9.38		1.0	0.30
98-82-8	Isopropylbenzene	9.72		1.0	0.13
99-87-6	p-Isopropyltoluene	10.6		1.0	0.12
75-09-2	Methylene Chloride	11.2		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	19.1		2.0	0.24
91-20-3	Naphthalene	6.51		1.0	0.24
104-51-8	n-Butylbenzene	9.44		1.0	0.12
103-65-1	N-Propylbenzene	10.5		1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 240-49859/4

Matrix: Water Lab File ID: UXJ5592.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 07/05/2012 10:59

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 49859 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	9.71		1.0	0.14
135-98-8	sec-Butylbenzene	10.5		1.0	0.13
100-42-5	Styrene	9.87		1.0	0.11
98-06-6	tert-Butylbenzene	10.5		1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	10.0		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	9.44		1.0	0.18
127-18-4	Tetrachloroethene	9.48		1.0	0.29
108-88-3	Toluene	9.40		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.86		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	9.31		1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	7.81		1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	8.96		1.0	0.15
71-55-6	1,1,1-Trichloroethane	9.51		1.0	0.22
79-00-5	1,1,2-Trichloroethane	9.86		1.0	0.27
79-01-6	Trichloroethene	10.1		1.0	0.17
75-69-4	Trichlorofluoromethane	10.1		1.0	0.21
96-18-4	1,2,3-Trichloropropane	10.1		1.0	0.43
95-63-6	1,2,4-Trimethylbenzene	10.8		1.0	0.12
108-67-8	1,3,5-Trimethylbenzene	10.8		1.0	0.096
75-01-4	Vinyl chloride	9.77		1.0	0.22
74-97-5	Bromochloromethane	9.74		1.0	0.29
106-93-4	1,2-Dibromoethane	9.39		1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		66-117
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		63-129
2037-26-5	Toluene-d8 (Surr)	97		74-115

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5592.D
 Lims ID: LCS Client ID:
 Inject. Date: 05-Jul-2012 10:59:30 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: 240-0011335-004
 Misc. Info.: J20705A,8260LLUX11,,43582
 Operator: 43582 Instrument ID: A3UX11
 Vol. Injected: 1.0000 ALS Bottle#: 3
 Lims Batch ID: 49859 Lims Sample ID: 4
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\8260_11.m
 Last Update: 06-Jul-2012 08:49:48 Calib Date: 19-Jun-2012 20:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX11\20120618-10834.b\UXJ5169.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-18

First Level Reviewer: evansle

Date: 05-Jul-2012 11:58:25

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.115	5.115	0.0	99	1311397	10.0	
* 2 Chlorobenzene-d5	117	7.789	7.789	0.0	82	992262	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.026	10.026	0.0	69	307127	10.0	
\$ 4 Dibromofluoromethane (Surr)	113	4.547	4.547	0.0	95	266531	8.37	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.831	4.831	0.0	89	311973	7.75	
\$ 6 Toluene-d8 (Surr)	98	6.476	6.476	0.0	82	1187068	8.05	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.890	8.890	0.0	93	379942	8.80	
8 Dichlorodifluoromethane	85	1.554	1.553	0.001	85	249089	8.66	
9 Chloromethane	50	1.684	1.684	0.0	89	445958	9.22	
10 Vinyl chloride	62	1.778	1.778	0.0	82	448838	9.77	
11 Bromomethane	94	2.062	2.074	-0.012	89	183903	12.7	
12 Chloroethane	64	2.157	2.157	0.0	99	168539	10.6	
14 Trichlorofluoromethane	101	2.358	2.370	-0.012	87	406726	10.1	
15 Ethyl ether	59	2.548	2.547	0.001	87	292227	9.72	
19 1,1-Dichloroethene	96	2.737	2.737	0.0	90	331194	10.2	
17 Acetone	43	2.760	2.760	0.0	100	196831	24.9	
18 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.796	2.796	0.0	81	249949	11.2	
21 Iodomethane	142	2.867	2.926	-0.059	97	500665	11.2	
23 Carbon disulfide	76	2.938	2.973	-0.035	98	1060133	9.74	
25 Methyl acetate	43	3.033	3.032	0.001	91	240867	10.8	
26 Methylene Chloride	84	3.127	3.127	0.0	78	414394	11.2	
27 2-Methyl-2-propanol	59	3.198	3.198	0.0	100	511427	202.6	
29 trans-1,2-Dichloroethene	96	3.352	3.352	0.0	62	368228	9.86	
30 Methyl tert-butyl ether	73	3.352	3.352	0.0	88	994965	9.60	
31 Hexane	86	3.577	3.577	0.0	89	81581	9.72	
32 1,1-Dichloroethane	63	3.695	3.695	0.0	85	626642	10.1	
33 Vinyl acetate	86	3.719	3.719	0.0	97	74487	10.0	
34 Isopropyl ether	87	3.743	3.743	0.0	93	345353	9.67	
38 2-Butanone (MEK)	43	4.157	4.157	0.0	59	256220	20.1	
39 2,2-Dichloropropane	77	4.169	4.168	0.001	79	358103	9.72	
40 cis-1,2-Dichloroethene	96	4.169	4.168	0.001	68	405377	9.90	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 Chlorobromomethane	128	4.358	4.358	0.0	86	186771	9.74	
44 Tetrahydrofuran	42	4.405	4.405	0.0	89	82959	9.75	
45 Chloroform	83	4.417	4.417	0.0	70	603238	9.55	
46 1,1,1-Trichloroethane	97	4.583	4.594	-0.011	87	465142	9.51	
47 Cyclohexane	56	4.642	4.654	-0.012	84	518071	9.26	
48 1,1-Dichloropropene	75	4.725	4.725	0.0	95	498296	9.75	
49 Carbon tetrachloride	117	4.737	4.736	0.001	82	413658	9.93	
50 Isobutyl alcohol	41	4.772	4.772	0.0	89	404912	410.3	
52 Benzene	78	4.890	4.890	0.0	94	1537243	9.91	
51 1,2-Dichloroethane	62	4.890	4.890	0.0	45	450655	9.65	
56 Trichloroethene	130	5.435	5.435	0.0	94	404621	10.1	
58 Methylcyclohexane	83	5.612	5.612	0.0	87	497033	8.92	
59 1,2-Dichloropropane	63	5.612	5.612	0.0	90	367027	10.0	
61 Dibromomethane	93	5.707	5.707	0.0	89	210976	10.3	
63 Dichlorobromomethane	83	5.837	5.837	0.0	90	469855	10.1	
65 2-Chloroethyl vinyl ether	63	6.086	6.085	0.001	92	217340	9.84	
66 cis-1,3-Dichloropropene	75	6.228	6.227	0.001	91	577754	9.60	
67 4-Methyl-2-pentanone (MIBK)	43	6.346	6.358	-0.012	94	491727	18.5	
68 Toluene	91	6.535	6.535	0.0	98	1668789	9.40	
69 trans-1,3-Dichloropropene	75	6.713	6.713	0.0	87	515179	9.31	
71 1,1,2-Trichloroethane	97	6.878	6.878	0.0	84	316718	9.86	
73 1,3-Dichloropropane	76	7.032	7.032	0.0	87	560345	9.59	
72 Tetrachloroethene	164	7.032	7.032	0.0	73	315872	9.48	
74 2-Hexanone	43	7.091	7.091	0.0	91	347583	19.2	
76 Chlorodibromomethane	129	7.245	7.245	0.0	85	333975	9.53	
77 Ethylene Dibromide	107	7.352	7.363	-0.011	98	307774	9.39	
79 Chlorobenzene	112	7.813	7.813	0.0	93	1047854	9.72	
80 1,1,1,2-Tetrachloroethane	131	7.884	7.884	0.0	87	356381	10.0	
81 Ethylbenzene	106	7.908	7.908	0.0	98	565259	9.57	
82 m-Xylene & p-Xylene	106	8.026	8.026	0.0	97	1389282	19.1	
83 o-Xylene	106	8.393	8.393	0.0	92	662955	9.71	
84 Styrene	104	8.405	8.405	0.0	92	1132346	9.87	
85 Bromoform	173	8.582	8.582	0.0	95	187999	10.8	
86 Isopropylbenzene	105	8.748	8.748	0.0	95	1593598	9.72	
87 Cyclohexanone	55	8.831	8.831	0.0	86	488464	290.3	
88 1,1,2,2-Tetrachloroethane	83	9.020	9.020	0.0	88	231772	9.44	
89 Bromobenzene	156	9.044	9.044	0.0	92	379218	10.6	
90 1,2,3-Trichloropropane	110	9.067	9.067	0.0	73	88158	10.1	
91 trans-1,4-Dichloro-2-butene	53	9.079	9.079	0.0	69	105071	24.8	
92 N-Propylbenzene	120	9.150	9.150	0.0	97	401813	10.5	
93 2-Chlorotoluene	126	9.233	9.233	0.0	97	332978	10.5	
94 1,3,5-Trimethylbenzene	105	9.316	9.316	0.0	90	1090536	10.8	
95 4-Chlorotoluene	126	9.340	9.339	0.001	97	335768	10.9	
96 tert-Butylbenzene	119	9.635	9.635	0.0	89	913538	10.5	
97 1,2,4-Trimethylbenzene	105	9.683	9.683	0.0	72	985558	10.8	
98 sec-Butylbenzene	105	9.860	9.860	0.0	93	1125401	10.5	
99 1,3-Dichlorobenzene	146	9.967	9.967	0.0	96	471622	9.77	
100 4-Isopropyltoluene	119	10.002	10.002	0.0	91	861900	10.6	
101 1,4-Dichlorobenzene	146	10.050	10.049	0.001	92	474075	9.57	
102 1,2,3-Trimethylbenzene	105	10.109	10.109	0.0	95	852384	9.92	
103 n-Butylbenzene	91	10.405	10.404	0.001	95	614915	9.44	
104 1,2-Dichlorobenzene	146	10.428	10.428	0.0	98	440218	9.48	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 1,2-Dibromo-3-Chloropropane	157	11.186	11.185	0.001	70	36489	8.03	
107 1,2,4-Trichlorobenzene	180	12.026	12.025	0.001	92	257345	8.96	
108 Hexachlorobutadiene	225	12.203	12.215	-0.012	90	115590	9.38	
109 Naphthalene	128	12.274	12.274	0.0	96	485441	6.51	
110 1,2,3-Trichlorobenzene	180	12.523	12.522	0.001	95	192630	7.81	
S 138 Trihalomethanes, Total	1				0		40.0	
S 112 1,2-Dichloroethene, Total	96				0		19.8	
S 114 Xylenes, Total	106				0		28.8	

Report Date: 06-Jul-2012 08:49:48

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\A3UX11\20120705-11335.b\UXJ5592.D

Injection Date: 05-Jul-2012 10:59:30

Limit Group: MSV 8260B ICAL

Client ID:

Instrument ID: A3UX11

Lims Batch ID: 49859

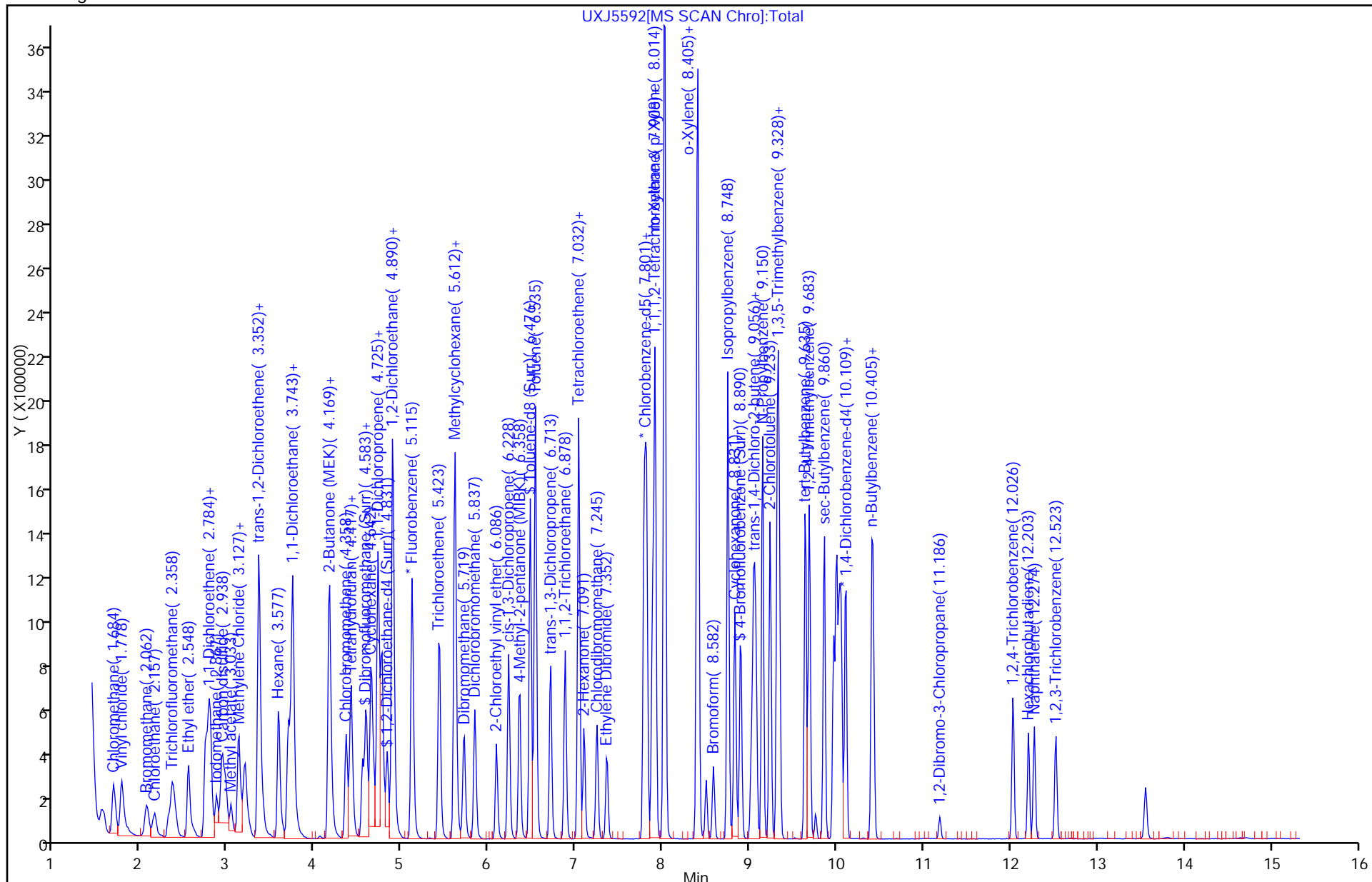
Lims Sample ID: 4

Operator ID: 43582

Column Type: DB-624

Column Dia: 0.18 mm

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: A3UX11 Start Date: 06/19/2012 12:15Analysis Batch Number: 47806 End Date: 06/19/2012 20:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-47806/1		06/19/2012 12:15	1	BFB989.D	DB-624 0.18 (mm)
STD8260 240-47806/4 IC		06/19/2012 13:56	1	UXJ5152.D	DB-624 0.18 (mm)
STD8260 240-47806/5 IC		06/19/2012 14:18	1	UXJ5153.D	DB-624 0.18 (mm)
STD8260 240-47806/6 ICIS		06/19/2012 14:41	1	UXJ5154.D	DB-624 0.18 (mm)
STD8260 240-47806/7 IC		06/19/2012 15:04	1	UXJ5155.D	DB-624 0.18 (mm)
STD8260 240-47806/8 IC		06/19/2012 15:26	1	UXJ5156.D	DB-624 0.18 (mm)
STD8260 240-47806/9 IC		06/19/2012 15:49	1	UXJ5157.D	DB-624 0.18 (mm)
STD6 240-47806/10 IC		06/19/2012 16:12	1	UXJ5158.D	DB-624 0.18 (mm)
STD5 240-47806/11 IC		06/19/2012 16:35	1	UXJ5159.D	DB-624 0.18 (mm)
STD4 240-47806/12 IC		06/19/2012 16:57	1	UXJ5160.D	DB-624 0.18 (mm)
STD3 240-47806/13 IC		06/19/2012 17:20	1	UXJ5161.D	DB-624 0.18 (mm)
STD2 240-47806/14 IC		06/19/2012 17:43	1	UXJ5162.D	DB-624 0.18 (mm)
STD1 240-47806/15 IC		06/19/2012 18:05	1	UXJ5163.D	DB-624 0.18 (mm)
STDBENZCHLOR 240-47806/16 IC		06/19/2012 18:28	1		DB-624 0.18 (mm)
STDBENZCHLOR 240-47806/17 IC		06/19/2012 18:51	1		DB-624 0.18 (mm)
STDBENZCHLOR 240-47806/18 IC		06/19/2012 19:14	1		DB-624 0.18 (mm)
STDBENZCHLOR 240-47806/19 IC		06/19/2012 19:36	1		DB-624 0.18 (mm)
STDBENZCHLOR 240-47806/20 IC		06/19/2012 19:59	1		DB-624 0.18 (mm)
STDBENZCHLOR 240-47806/21 IC		06/19/2012 20:22	1		DB-624 0.18 (mm)
ICV 240-47806/22		06/19/2012 20:44	1	UXJ5170.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: A3UX11 Start Date: 07/05/2012 09:49Analysis Batch Number: 49859 End Date: 07/05/2012 20:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-49859/1		07/05/2012 09:49	1	BFB005B.D	DB-624 0.18 (mm)
CCVIS 240-49859/2		07/05/2012 10:13	1	UXJ5590.D	DB-624 0.18 (mm)
CCV 240-49859/3		07/05/2012 10:36	1	UXJ5591.D	DB-624 0.18 (mm)
LCS 240-49859/4		07/05/2012 10:59	1	UXJ5592.D	DB-624 0.18 (mm)
MB 240-49859/5		07/05/2012 11:44	1	UXJ5594.D	DB-624 0.18 (mm)
ZZZZZ		07/05/2012 12:07	2000		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 12:30	20		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 12:52	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 13:15	6.67		DB-624 0.18 (mm)
240-12605-3	MW-102A(20120622)	07/05/2012 13:38	1	UXJ5599.D	DB-624 0.18 (mm)
240-12605-4	TRIP BLANK	07/05/2012 14:00	1	UXJ5600.D	DB-624 0.18 (mm)
ZZZZZ		07/05/2012 14:23	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 14:46	66.67		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 15:08	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 15:31	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 15:54	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 16:16	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 16:39	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 17:02	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 17:25	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 17:48	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 18:10	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 18:33	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 18:56	1		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 19:18	9.09		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 19:41	9.09		DB-624 0.18 (mm)
ZZZZZ		07/05/2012 20:04	9.09		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: A3UX15 Start Date: 04/29/2012 09:08Analysis Batch Number: 42081 End Date: 04/29/2012 15:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-42081/1		04/29/2012 09:08	1	BFB951.D	DB-624 0.18 (mm)
STD8260 240-42081/2 IC		04/29/2012 11:24	1	UXC3076.D	DB-624 0.18 (mm)
STD8260 240-42081/3 IC		04/29/2012 11:47	1	UXC3077.D	DB-624 0.18 (mm)
STD8260 240-42081/4 ICIS		04/29/2012 12:09	1	UXC3078.D	DB-624 0.18 (mm)
STD8260 240-42081/5 IC		04/29/2012 12:32	1	UXC3079.D	DB-624 0.18 (mm)
STD8260 240-42081/6 IC		04/29/2012 12:54	1	UXC3080.D	DB-624 0.18 (mm)
STD8260 240-42081/7 IC		04/29/2012 13:17	1	UXC3081.D	DB-624 0.18 (mm)
STD6 240-42081/8 IC		04/29/2012 13:40	1	UXC3082.D	DB-624 0.18 (mm)
STD5 240-42081/9 IC		04/29/2012 14:02	1	UXC3083.D	DB-624 0.18 (mm)
STD4 240-42081/10 IC		04/29/2012 14:25	1	UXC3084.D	DB-624 0.18 (mm)
STD3 240-42081/11 IC		04/29/2012 14:48	1	UXC3085.D	DB-624 0.18 (mm)
STD2 240-42081/12 IC		04/29/2012 15:10	1	UXC3086.D	DB-624 0.18 (mm)
STD1 240-42081/13 IC		04/29/2012 15:33	1	UXC3087.D	DB-624 0.18 (mm)
ICV 240-42081/14		04/29/2012 15:55	1	UXC3088.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: A3UX15 Start Date: 07/03/2012 14:39Analysis Batch Number: 49717 End Date: 07/04/2012 00:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-49717/1		07/03/2012 14:39	1	BFB006C.D	DB-624 0.18 (mm)
CCVIS 240-49717/2		07/03/2012 15:01	1	UXC4861.D	DB-624 0.18 (mm)
CCV 240-49717/3		07/03/2012 15:24	1	UXC4862.D	DB-624 0.18 (mm)
LCS 240-49717/4		07/03/2012 15:46	1	UXC4863.D	DB-624 0.18 (mm)
MB 240-49717/5		07/03/2012 16:09	1	UXC4864.D	DB-624 0.18 (mm)
240-12605-1	MW-101(20120622)	07/03/2012 16:32	1	UXC4865.D	DB-624 0.18 (mm)
240-12605-2	MW-1A(20120622)	07/03/2012 16:55	1	UXC4866.D	DB-624 0.18 (mm)
ZZZZZ		07/03/2012 17:17	20		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 17:40	1		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 18:03	1		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 18:25	1		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 18:48	1		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 19:11	1		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 19:56	28.57		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 20:41	2		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 21:03	10		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 21:25	16.67		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 21:47	10		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 22:10	1.67		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 22:32	10		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 23:16	1		DB-624 0.18 (mm)
ZZZZZ		07/03/2012 23:39	1		DB-624 0.18 (mm)
ZZZZZ		07/04/2012 00:01	1		DB-624 0.18 (mm)
ZZZZZ		07/04/2012 00:23	1		DB-624 0.18 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-12605-1

SDG No.: _____

Project: Oak Grove Village

Client Sample ID	Lab Sample ID
<u>MW-101(20120622)</u>	<u>240-12605-1</u>
<u>MW-1A(20120622)</u>	<u>240-12605-2</u>
<u>MW-102A(20120622)</u>	<u>240-12605-3</u>

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-101(20120622) Lab Sample ID: 240-12605-1
 Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 06/22/2012 09:55
 Reporting Basis: WET Date Received: 06/23/2012 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-42-8	Boron	200	200	34	ug/L	U		1	6010B
7440-39-3	Barium	55	200	0.67	ug/L	J	B	1	6010B
7440-70-2	Calcium	57000	5000	130	ug/L		B	1	6010B
7440-47-3	Chromium	5.0	5.0	2.2	ug/L	U		1	6010B
7439-89-6	Iron	100	100	81	ug/L	U		1	6010B
7440-09-7	Potassium	1900	5000	72	ug/L	J		1	6010B
7439-95-4	Magnesium	32000	5000	34	ug/L		B	1	6010B
7439-96-5	Manganese	15	15	0.41	ug/L	U		1	6010B
7440-23-5	Sodium	4900	5000	590	ug/L	J		1	6010B
7440-02-0	Nickel	40	40	3.2	ug/L	U		1	6010B
7439-92-1	Lead	3.0	3.0	1.9	ug/L	U		1	6010B
7440-66-6	Zinc	27	50	5.0	ug/L	J	B	1	6010B
7439-93-2	Lithium	11	50	1.8	ug/L	J		1	6010B
14808-60-7	SiO2, Silica	9000	1100	14	ug/L		B	1	6010B
7440-24-6	Strontium	52	10	0.33	ug/L		B	1	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-1A(20120622) Lab Sample ID: 240-12605-2

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG ID.: _____

Matrix: Water Date Sampled: 06/21/2012 17:05

Reporting Basis: WET Date Received: 06/23/2012 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-39-3	Barium	120	200	0.67	ug/L	J		1	6010B
7440-42-8	Boron	43	200	34	ug/L	J		1	6010B
7440-70-2	Calcium	62000	5000	130	ug/L			1	6010B
7440-47-3	Chromium	5.0	5.0	2.2	ug/L	U		1	6010B
7439-89-6	Iron	100	100	81	ug/L	U		1	6010B
7440-09-7	Potassium	2700	5000	72	ug/L	J		1	6010B
7439-95-4	Magnesium	32000	5000	34	ug/L			1	6010B
7439-96-5	Manganese	0.81	15	0.41	ug/L	J	B	1	6010B
7440-23-5	Sodium	5600	5000	590	ug/L			1	6010B
7440-02-0	Nickel	40	40	3.2	ug/L	U		1	6010B
7440-66-6	Zinc	5.5	20	5.0	ug/L	J		1	6010B
7439-92-1	Lead	3.0	3.0	1.9	ug/L	U		1	6010B
7439-93-2	Lithium	50	50	1.8	ug/L	U		1	6010B
14808-60-7	SiO ₂ , Silica	11000	1100	14	ug/L			1	6010B
7440-24-6	Strontium	91	10	0.33	ug/L			1	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-102A(20120622) Lab Sample ID: 240-12605-3

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG ID.: _____

Matrix: Water Date Sampled: 06/22/2012 12:15

Reporting Basis: WET Date Received: 06/23/2012 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-39-3	Barium	50	200	0.67	ug/L	J		1	6010B
7440-42-8	Boron	200	200	34	ug/L	U		1	6010B
7440-70-2	Calcium	39000	5000	130	ug/L			1	6010B
7440-47-3	Chromium	5.0	5.0	2.2	ug/L	U		1	6010B
7439-89-6	Iron	100	100	81	ug/L	U		1	6010B
7440-09-7	Potassium	830	5000	72	ug/L	J		1	6010B
7439-95-4	Magnesium	21000	5000	34	ug/L			1	6010B
7439-96-5	Manganese	15	15	0.41	ug/L	U		1	6010B
7440-23-5	Sodium	2800	5000	590	ug/L	J		1	6010B
7440-02-0	Nickel	40	40	3.2	ug/L	U		1	6010B
7440-66-6	Zinc	20	20	5.0	ug/L	U		1	6010B
7439-92-1	Lead	3.0	3.0	1.9	ug/L	U		1	6010B
7439-93-2	Lithium	1.8	50	1.8	ug/L	J	B	1	6010B
14808-60-7	SiO2, Silica	10000	1100	14	ug/L			1	6010B
7440-24-6	Strontium	41	10	0.33	ug/L			1	6020

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MT6500ICV_00006 Concentration Units: ug/L

CCV Source: MT6500CCV_00012

Analyte	ICV 240-49561/4 06/29/2012 10:39				CCV 240-49561/94 06/29/2012 16:27				CCV 240-49561/106 06/29/2012 17:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Barium	1600		1500	107	2040		2000	102	2040		2000	102
Boron	1530		1500	102	5200		5000	104	5160		5000	103
Calcium	26300		25000	105	50000		50000	100	50200		50000	100
Chromium	1510		1500	101	1970		2000	99	1960		2000	98
Iron	12800		12500	102	25800		25000	103	25800		25000	103
Lead	365		375	97	489		500	98	488		500	98
Lithium	1000		1000	100	4930		5000	99	4980		5000	100
Magnesium	25900		25000	104	47800		50000	96	48200		50000	96
Manganese	1520		1500	102	1970		2000	98	1960		2000	98
Nickel	1450		1500	97	1970		2000	99	1960		2000	98
Potassium	25600		25000	102	50500		50000	101	50900		50000	102
SiO2, Silica	6970		6420	109	11700		10700	109	11600		10700	108
Sodium	25800		25000	103	51500		50000	103	52100		50000	104
Zinc	1480		1500	99	1960		2000	98	1950		2000	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MT6500ICV_00006 Concentration Units: ug/L

CCV Source: MT6500CCV_00012

Analyte	CCV 240-49561/118 06/29/2012 17:59											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Barium	2030		2000	102								
Boron	5190		5000	104								
Calcium	49400		50000	99								
Chromium	1930		2000	96								
Iron	25300		25000	101								
Lead	484		500	97								
Lithium	5010		5000	100								
Magnesium	48400		50000	97								
Manganese	1960		2000	98								
Nickel	1960		2000	98								
Potassium	50700		50000	101								
SiO2, Silica	11300		10700	106								
Sodium	52100		50000	104								
Zinc	1950		2000	97								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MT6500ICV_00006 Concentration Units: ug/L

CCV Source: MT6500CCV_00012

Analyte	ICV 240-50182/4 07/06/2012 15:26				CCV 240-50182/10 07/06/2012 15:49				CCV 240-50182/22 07/06/2012 16:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Barium	1580		1500	105	1970		2000	98	1950		2000	97
Boron	1530		1500	102	5040		5000	101	5020		5000	100
Calcium	25900		25000	104	51100		50000	102	50200		50000	100
Chromium	1490		1500	100	1960		2000	98	1930		2000	97
Iron	12500		12500	100	25800		25000	103	25100		25000	100
Lead	366		375	98	482		500	96	481		500	96
Lithium	998		1000	100	4970		5000	99	4880		5000	98
Magnesium	25200		25000	101	50400		50000	101	48700		50000	97
Manganese	1490		1500	100	1950		2000	98	1920		2000	96
Nickel	1450		1500	97	1960		2000	98	1940		2000	97
Potassium	25000		25000	100	50200		50000	100	49600		50000	99
SiO2, Silica	6680		6420	104	10800		10700	101	10700		10700	100
Sodium	25200		25000	101	50900		50000	102	48800		50000	98
Zinc	1480		1500	99	1980		2000	99	1970		2000	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MT6500ICV_00006 Concentration Units: ug/L

CCV Source: MT6500CCV_00012

Analyte	CCV 240-50182/165 07/07/2012 01:54				CCV 240-50182/177 07/07/2012 02:39							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Barium	1990		2000	99	2000		2000	100				
Boron	5090		5000	102	5170		5000	103				
Calcium	51000		50000	102	51000		50000	102				
Chromium	1940		2000	97	1940		2000	97				
Iron	28200		25000	113	28400		25000	113				
Lead	475		500	95	478		500	96				
Lithium	5510		5000	110	5510		5000	110				
Magnesium	57300		50000	115	57900		50000	116				
Manganese	2060		2000	103	2080		2000	104				
Nickel	1990		2000	100	2010		2000	101				
Potassium	53400		50000	107	52900		50000	106				
SiO2, Silica	10300		10700	96	10200		10700	95				
Sodium	50800		50000	102	52700		50000	105				
Zinc	2090		2000	104	2100		2000	105				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MT6500ICV_00006 Concentration Units: ug/L

CCV Source: MT6500CCV_00012

Analyte	ICV 240-50312/4 07/09/2012 11:57				CCV 240-50312/94 07/09/2012 18:17				CCV 240-50312/106 07/09/2012 19:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12600		12500	100	24800		25000	99	24700		25000	99
Magnesium	25300		25000	101	49600		50000	99	49400		50000	99
Sodium	25200		25000	101	48000		50000	96	46000		50000	92
<i>Barium</i>	1610		1500	108	1960		2000	98	1970		2000	99
<i>Boron</i>	1520		1500	101	4760		5000	95	4780		5000	96
<i>Calcium</i>	26000		25000	104	50000		50000	100	50000		50000	100
<i>Chromium</i>	1510		1500	100	1930		2000	97	1940		2000	97
<i>Lead</i>	372		375	99	476		500	95	478		500	96
<i>Li</i>	1010		1000	101	4750		5000	95	4800		5000	96
<i>Manganese</i>	1530		1500	102	1910		2000	96	1910		2000	96
<i>Nickel</i>	1460		1500	98	1930		2000	96	1930		2000	97
<i>Potassium</i>	25000		25000	100	48100		50000	96	48200		50000	96
<i>SiO2, Silica</i>	6680		6420	104	10300		10700	96	10200		10700	95
<i>Zinc</i>	1500		1500	100	1950		2000	98	1960		2000	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MTMSICVW_00015 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00042

Analyte	ICV 240-49560/5 06/29/2012 08:34				CCV 240-49560/49 06/29/2012 13:00				CCV 240-49560/61 06/29/2012 14:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Strontium	77.3		80.0	97	99.2		100	99	99.2		100	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MTMSICVW_00015 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00042

Analyte	CCV 240-49560/73 06/29/2012 15:24				CCV 240-49560/85 06/29/2012 16:34							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Strontium	99.8		100	100	100		100	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MTMSICVW_00015 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00043

Analyte	ICV 240-50170/5 07/06/2012 08:44				CCV 240-50170/10 07/06/2012 09:13				CCV 240-50170/22 07/06/2012 10:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Strontium	77.4		80.0	97	96.5		100	97	96.4		100	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICV Source: MTMSICVW_00015 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00043

Analyte	CCV 240-50170/46 07/06/2012 12:38				CCV 240-50170/58 07/06/2012 13:48							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Strontium	96.9		100	97	97.2		100	97				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Method: 6010B Instrument ID: I9
 Lab Sample ID: CRI 240-49561/6 Concentration Units: ug/L
 CRQL Check Standard Source: MT6500CRIW_00005

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Barium	10.0	9.78	J	98	50-150
Boron	200	203		101	50-150
Calcium	5000	5190		104	50-150
Chromium	5.00	4.92	J	98	50-150
Iron	300	316		105	50-150
Potassium	5000	4940	J	99	50-150
Magnesium	5000	5370		107	50-150
Manganese	15.0	15.4		102	50-150
Sodium	5000	5100		102	50-150
Nickel	25.0	23.9	J	96	50-150
Lead	10.0	9.97		100	50-150
Zinc	40.0	38.4		96	50-150
Lithium	50.0	35.4	J	71	50-150
SiO2, Silica	1070	1060	J	99	50-150

Lab Sample ID: CRI 240-50182/6 Concentration Units: ug/L
 CRQL Check Standard Source: MT6500CRIW_00005

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Barium	10.0	10.3	J	103	50-150
Boron	200	197	J	98	50-150
Calcium	5000	5130		103	50-150
Chromium	5.00	4.33	J	87	50-150
Iron	300	304		101	50-150
Potassium	5000	5060		101	50-150
Magnesium	5000	5240		105	50-150
Manganese	15.0	14.9	J	99	50-150
Sodium	5000	5130		103	50-150
Nickel	25.0	23.3	J	93	50-150
Lead	10.0	10.1		101	50-150
Zinc	40.0	37.5		94	50-150
Lithium	50.0	48.2	J	96	50-150
SiO2, Silica	1070	1100		103	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Method: 6010B Instrument ID: I9
 Lab Sample ID: CRI 240-50312/6 Concentration Units: ug/L
 CRQL Check Standard Source: MT6500CRIW_00005

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Barium	10.0	9.77	J	98	50-150
Boron	200	191	J	95	50-150
Calcium	5000	4920	J	98	50-150
Chromium	5.00	4.92	J	98	50-150
Iron	300	302		101	50-150
Potassium	5000	4930	J	99	50-150
Magnesium	5000	5110		102	50-150
Manganese	15.0	15.2		102	50-150
Sodium	5000	4990	J	100	50-150
Nickel	25.0	23.5	J	94	50-150
Lead	10.0	9.00		90	50-150
Zinc	40.0	38.7		97	50-150
Li	50.0	49.3	J	99	50-150
SiO2, Silica	1070	1070	J	100	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Method: 6020 Instrument ID: I8
Lab Sample ID: CRI 240-49560/12 Concentration Units: ug/L
CRQL Check Standard Source: MTMSCRIW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Strontium	10.0	9.00	J	90	50-150

Lab Sample ID: CRI 240-50170/7 Concentration Units: ug/L
CRQL Check Standard Source: MTMSCRIW_00020

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Strontium	10.0	9.42	J	94	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-49561/5 06/29/2012 10:43		CCB 240-49561/95 06/29/2012 16:31		CCB 240-49561/107 06/29/2012 17:17		CCB 240-49561/119 06/29/2012 18:03	
		Found	C	Found	C	Found	C	Found	C
Barium	200	200	U	1.13	J	0.774	J	0.758	J
Boron	200	200	U	200	U	200	U	200	U
Calcium	5000	5000	U	5000	U	5000	U	5000	U
Chromium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Iron	100	100	U	100	U	100	U	100	U
Lead	3.0	3.0	U	3.0	U	3.0	U	3.0	U
Lithium	50	50	U	4.05	J	50	U	50	U
Magnesium	5000	5000	U	5000	U	5000	U	5000	U
Manganese	15	15	U	15	U	15	U	0.668	J
Nickel	40	40	U	40	U	40	U	40	U
Potassium	5000	5000	U	5000	U	5000	U	5000	U
SiO₂, Silica	1100	1100	U	1100	U	1100	U	1100	U
Sodium	5000	5000	U	5000	U	5000	U	5000	U
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-50182/5 07/06/2012 15:30		CCB 240-50182/11 07/06/2012 15:53		CCB 240-50182/23 07/06/2012 16:39		CCB 240-50182/166 07/07/2012 01:58	
		Found	C	Found	C	Found	C	Found	C
Barium	200	200	U	0.995	J	200	U	200	U
Boron	200	200	U	200	U	200	U	200	U
Calcium	5000	5000	U	199	J	5000	U	5000	U
Chromium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Iron	100	100	U	81.9	J	100	U	100	U
Lead	3.0	3.0	U	3.0	U	3.0	U	3.0	U
Lithium	50	50	U	4.59	J	3.71	J	23.9	J
Magnesium	5000	5000	U	210	J	5000	U	5000	U
Manganese	15	15	U	15	U	15	U	15	U
Nickel	40	40	U	40	U	40	U	40	U
Potassium	5000	5000	U	5000	U	172	J	973	J
SiO₂, Silica	1100	1100	U	1100	U	1100	U	1100	U
Sodium	5000	5000	U	5000	U	5000	U	2950	J
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-50182/178 07/07/2012 02:43							
		Found	C	Found	C	Found	C	Found	C
Barium	200	200	U						
Boron	200	200	U						
Calcium	5000	5000	U						
Chromium	5.0	5.0	U						
Iron	100	100	U						
Lead	3.0	3.0	U						
Lithium	50	11.8	J						
Magnesium	5000	5000	U						
Manganese	15	15	U						
Nickel	40	40	U						
Potassium	5000	474	J						
SiO2, Silica	1100	1100	U						
Sodium	5000	5000	U						
Zinc	20	20	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-50312/5 07/09/2012 12:01		CCB 240-50312/95 07/09/2012 18:21		CCB 240-50312/107 07/09/2012 19:08			
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U	100	U	100	U		
Magnesium	5000	5000	U	5000	U	5000	U		
Sodium	5000	5000	U	5000	U	763	J		
<i>Barium</i>	200	200	U	200	U	200	U		
<i>Boron</i>	200	200	U	200	U	62.9	J		
<i>Calcium</i>	5000	5000	U	5000	U	5000	U		
<i>Chromium</i>	5.0	5.0	U	5.0	U	2.22	J		
<i>Lead</i>	3.0	3.0	U	3.0	U	3.0	U		
<i>Li</i>	50	50	U	13.7	J	13.4	J		
<i>Manganese</i>	15	15	U	15	U	15	U		
<i>Nickel</i>	40	40	U	40	U	40	U		
<i>Potassium</i>	5000	91.8	J	269	J	424	J		
<i>SiO2, Silica</i>	1100	1100	U	29.5	J	1100	U		
<i>Zinc</i>	20	20	U	20	U	14.4	J		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-49560/6 06/29/2012 08:41		CCB 240-49560/50 06/29/2012 13:07		CCB 240-49560/62 06/29/2012 14:16		CCB 240-49560/74 06/29/2012 15:31	
		Found	C	Found	C	Found	C	Found	C
Strontium	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-49560/86 06/29/2012 16:41							
		Found	C	Found	C	Found	C	Found	C
Strontium	10	10	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-50170/6 07/06/2012 08:50		CCB 240-50170/11 07/06/2012 09:19		CCB 240-50170/23 07/06/2012 10:28		CCB 240-50170/47 07/06/2012 12:44	
		Found	C	Found	C	Found	C	Found	C
Strontium	10	10	U	10	U	10	U	10	U

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-50170/59 07/06/2012 13:54							
		Found	C	Found	C	Found	C	Found	C
Strontium	10	10	U						

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-49161/1-A
Instrument Code: I9 Batch No.: 49561

CAS No.	Analyte	Concentration	C	Q	Method
7440-39-3	Barium	200	U		6010B
7440-42-8	Boron	200	U		6010B
7440-70-2	Calcium	5000	U		6010B
7440-47-3	Chromium	5.0	U		6010B
7439-89-6	Iron	100	U		6010B
7440-09-7	Potassium	5000	U		6010B
7439-95-4	Magnesium	5000	U		6010B
7439-96-5	Manganese	0.515	J		6010B
7440-23-5	Sodium	5000	U		6010B
7440-02-0	Nickel	40	U		6010B
7439-92-1	Lead	3.0	U		6010B
7440-66-6	Zinc	20	U		6010B
7439-93-2	Lithium	4.53	J		6010B
14808-60-7	SiO ₂ , Silica	1100	U		6010B

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-49868/1-B
Instrument Code: I9 Batch No.: 50182

CAS No.	Analyte	Concentration	C	Q	Method
7440-39-3	Barium	0.842	J		6010B
7440-42-8	Boron	200	U		6010B
7440-70-2	Calcium	207	J		6010B
7440-47-3	Chromium	5.0	U		6010B
7439-89-6	Iron	100	U		6010B
7440-09-7	Potassium	5000	U		6010B
7439-95-4	Magnesium	54.8	J		6010B
7439-96-5	Manganese	15	U		6010B
7440-23-5	Sodium	5000	U		6010B
7440-02-0	Nickel	40	U		6010B
7439-92-1	Lead	3.0	U		6010B
7440-66-6	Zinc	7.48	J		6010B
7439-93-2	Lithium	50	U		6010B
14808-60-7	SiO ₂ , Silica	24.3	J		6010B

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-49161/1-A
Instrument Code: I8 Batch No.: 49560

CAS No.	Analyte	Concentration	C	Q	Method
7440-24-6	Strontium	10	U		6020

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-49868/1-C
Instrument Code: I8 Batch No.: 50170

CAS No.	Analyte	Concentration	C	Q	Method
7440-24-6	Strontium	0.679	J		6020

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-49561/8 Instrument ID: I9
 Lab File ID: I9062912A.asc ICS Source: MTTRICSAW_00012
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Barium		0.0059	
Boron		0.764	
Calcium	500000	496940	99
Chromium		3.01	
Iron	200000	196770	98
Lead		3.28	
Lithium		-22.3	
Magnesium	500000	516130	103
Manganese		0.747	
Nickel		1.62	
Potassium		-168	
Sodium		29.4	
Zinc		5.45	
<i>Aluminum</i>	<i>500000</i>	<i>527200</i>	<i>105</i>
<i>Antimony</i>		<i>-9.80</i>	
<i>Arsenic</i>		<i>0.587</i>	
<i>Beryllium</i>		<i>-0.354</i>	
<i>Cadmium</i>		<i>0.773</i>	
<i>Cobalt</i>		<i>-1.72</i>	
<i>Copper</i>		<i>4.05</i>	
<i>Molybdenum</i>		<i>-1.29</i>	
<i>Selenium</i>		<i>4.60</i>	
<i>Silicon</i>		<i>-25.9</i>	
<i>Silver</i>		<i>0.438</i>	
<i>Strontium</i>		<i>9.96</i>	
<i>Thallium</i>		<i>0.0557</i>	
<i>Tin</i>		<i>4.77</i>	
<i>Titanium</i>		<i>-0.710</i>	
<i>Vanadium</i>		<i>1.39</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-49561/9 Instrument ID: I9
 Lab File ID: I9062912A.asc ICS Source: MT6500ICSAB2W_00003
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Barium	500	505	101
Boron	500	509	102
Calcium	500000	474500	95
Chromium	500	471	94
Iron	200000	189820	95
Lead	1000	872	87
Lithium	500	496	99
Magnesium	500000	495800	99
Manganese	500	479	96
Nickel	1000	927	93
Potassium	10000	10139	101
Sodium	10000	10369	104
Zinc	1000	944	94
<i>Aluminum</i>	<i>500000</i>	<i>505800</i>	<i>101</i>
<i>Antimony</i>	<i>1000</i>	<i>966</i>	<i>97</i>
<i>Arsenic</i>	<i>1000</i>	<i>957</i>	<i>96</i>
<i>Beryllium</i>	<i>500</i>	<i>481</i>	<i>96</i>
<i>Cadmium</i>	<i>1000</i>	<i>961</i>	<i>96</i>
<i>Cobalt</i>	<i>500</i>	<i>466</i>	<i>93</i>
<i>Copper</i>	<i>500</i>	<i>508</i>	<i>102</i>
<i>Molybdenum</i>	<i>1000</i>	<i>920</i>	<i>92</i>
<i>Selenium</i>	<i>1000</i>	<i>948</i>	<i>95</i>
<i>Silicon</i>	<i>10000</i>	<i>10343</i>	<i>103</i>
<i>Silver</i>	<i>1000</i>	<i>1057</i>	<i>106</i>
<i>Strontium</i>	<i>1500</i>	<i>1435</i>	<i>96</i>
<i>Thallium</i>	<i>1000</i>	<i>941</i>	<i>94</i>
<i>Tin</i>	<i>500</i>	<i>504</i>	<i>101</i>
<i>Titanium</i>	<i>500</i>	<i>506</i>	<i>101</i>
<i>Vanadium</i>	<i>500</i>	<i>468</i>	<i>94</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-50182/8 Instrument ID: I9
 Lab File ID: I9070612A.asc ICS Source: MTTRICSAW_00012
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Barium		0.359	
Boron		-3.12	
Calcium	500000	501690	100
Chromium		2.78	
Iron	200000	194530	97
Lead		1.34	
Lithium		-6.80	
Magnesium	500000	509190	102
Manganese		0.798	
Nickel		1.05	
Potassium		-21.5	
Sodium		84.7	
Zinc		5.93	
<i>Aluminum</i>	<i>500000</i>	<i>522270</i>	<i>104</i>
<i>Antimony</i>		<i>-3.48</i>	
<i>Arsenic</i>		<i>-1.80</i>	
<i>Beryllium</i>		<i>-0.270</i>	
<i>Cadmium</i>		<i>0.520</i>	
<i>Cobalt</i>		<i>-1.37</i>	
<i>Copper</i>		<i>2.55</i>	
<i>Molybdenum</i>		<i>-1.50</i>	
<i>Selenium</i>		<i>1.90</i>	
<i>Silicon</i>		<i>-5.15</i>	
<i>Silver</i>		<i>-0.125</i>	
<i>Strontium</i>		<i>2.27</i>	
<i>Thallium</i>		<i>-1.71</i>	
<i>Tin</i>		<i>3.85</i>	
<i>Titanium</i>		<i>-0.617</i>	
<i>Vanadium</i>		<i>-1.80</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-50182/9 Instrument ID: I9
 Lab File ID: I9070612A.asc ICS Source: MT6500ICSAB2W_00004
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Barium	500	516	103
Boron	500	499	100
Calcium	500000	491350	98
Chromium	500	490	98
Iron	200000	192250	96
Lead	1000	878	88
Lithium	500	510	102
Magnesium	500000	497840	100
Manganese	500	490	98
Nickel	1000	927	93
Potassium	10000	10465	105
Sodium	10000	10578	106
Zinc	1000	956	96
<i>Aluminum</i>	<i>500000</i>	<i>511720</i>	<i>102</i>
<i>Antimony</i>	<i>1000</i>	<i>1002</i>	<i>100</i>
<i>Arsenic</i>	<i>1000</i>	<i>971</i>	<i>97</i>
<i>Beryllium</i>	<i>500</i>	<i>493</i>	<i>99</i>
<i>Cadmium</i>	<i>1000</i>	<i>982</i>	<i>98</i>
<i>Cobalt</i>	<i>500</i>	<i>467</i>	<i>93</i>
<i>Copper</i>	<i>500</i>	<i>515</i>	<i>103</i>
<i>Molybdenum</i>	<i>1000</i>	<i>931</i>	<i>93</i>
<i>Selenium</i>	<i>1000</i>	<i>960</i>	<i>96</i>
<i>Silicon</i>	<i>10000</i>	<i>9936</i>	<i>99</i>
<i>Silver</i>	<i>1000</i>	<i>1069</i>	<i>107</i>
<i>Strontium</i>	<i>1500</i>	<i>1428</i>	<i>95</i>
<i>Thallium</i>	<i>1000</i>	<i>934</i>	<i>93</i>
<i>Tin</i>	<i>500</i>	<i>494</i>	<i>99</i>
<i>Titanium</i>	<i>500</i>	<i>510</i>	<i>102</i>
<i>Vanadium</i>	<i>500</i>	<i>481</i>	<i>96</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-50312/8 Instrument ID: I9
 Lab File ID: I9070912A.asc ICS Source: MTTRICSAW_00012
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	196100	98
Magnesium	500000	514020	103
Sodium		73.8	
<i>Aluminum</i>	<i>500000</i>	<i>527710</i>	<i>106</i>
<i>Antimony</i>		<i>-1.22</i>	
<i>Arsenic</i>		<i>4.12</i>	
<i>Barium</i>		<i>0.0197</i>	
<i>Beryllium</i>		<i>-0.551</i>	
<i>Boron</i>		<i>-6.66</i>	
<i>Cadmium</i>		<i>1.12</i>	
<i>Calcium</i>	<i>500000</i>	<i>497200</i>	<i>99</i>
<i>Chromium</i>		<i>3.12</i>	
<i>Cobalt</i>		<i>-1.26</i>	
<i>Copper</i>		<i>1.09</i>	
<i>Lead</i>		<i>4.30</i>	
<i>Li</i>		<i>-16.5</i>	
<i>Manganese</i>		<i>0.891</i>	
<i>Molybdenum</i>		<i>-1.65</i>	
<i>Nickel</i>		<i>1.62</i>	
<i>Potassium</i>		<i>22.5</i>	
<i>Selenium</i>		<i>4.79</i>	
<i>Silicon</i>		<i>-11.5</i>	
<i>Silver</i>		<i>0.794</i>	
<i>Strontium</i>		<i>8.02</i>	
<i>Thallium</i>		<i>-1.66</i>	
<i>Tin</i>		<i>5.38</i>	
<i>Titanium</i>		<i>-0.673</i>	
<i>Vanadium</i>		<i>-2.01</i>	
<i>Zinc</i>		<i>6.45</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-50312/9 Instrument ID: I9
 Lab File ID: I9070912A.asc ICS Source: MT6500ICSAB2W_00004
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	191750	96
Magnesium	500000	505380	101
Sodium	10000	10574	106
<i>Aluminum</i>	<i>500000</i>	<i>517800</i>	<i>104</i>
<i>Antimony</i>	<i>1000</i>	<i>1007</i>	<i>101</i>
<i>Arsenic</i>	<i>1000</i>	<i>993</i>	<i>99</i>
<i>Barium</i>	<i>500</i>	<i>528</i>	<i>106</i>
<i>Beryllium</i>	<i>500</i>	<i>495</i>	<i>99</i>
<i>Boron</i>	<i>500</i>	<i>502</i>	<i>100</i>
<i>Cadmium</i>	<i>1000</i>	<i>1002</i>	<i>100</i>
<i>Calcium</i>	<i>500000</i>	<i>494770</i>	<i>99</i>
<i>Chromium</i>	<i>500</i>	<i>484</i>	<i>97</i>
<i>Cobalt</i>	<i>500</i>	<i>473</i>	<i>95</i>
<i>Copper</i>	<i>500</i>	<i>509</i>	<i>102</i>
<i>Lead</i>	<i>1000</i>	<i>913</i>	<i>91</i>
<i>Li</i>	<i>500</i>	<i>512</i>	<i>102</i>
<i>Manganese</i>	<i>500</i>	<i>491</i>	<i>98</i>
<i>Molybdenum</i>	<i>1000</i>	<i>956</i>	<i>96</i>
<i>Nickel</i>	<i>1000</i>	<i>940</i>	<i>94</i>
<i>Potassium</i>	<i>10000</i>	<i>10577</i>	<i>106</i>
<i>Selenium</i>	<i>1000</i>	<i>972</i>	<i>97</i>
<i>Silicon</i>	<i>10000</i>	<i>9937</i>	<i>99</i>
<i>Silver</i>	<i>1000</i>	<i>1069</i>	<i>107</i>
<i>Strontium</i>	<i>1500</i>	<i>1441</i>	<i>96</i>
<i>Thallium</i>	<i>1000</i>	<i>940</i>	<i>94</i>
<i>Tin</i>	<i>500</i>	<i>505</i>	<i>101</i>
<i>Titanium</i>	<i>500</i>	<i>514</i>	<i>103</i>
<i>Vanadium</i>	<i>500</i>	<i>485</i>	<i>97</i>
<i>Zinc</i>	<i>1000</i>	<i>955</i>	<i>95</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-49560/8 Instrument ID: I8
 Lab File ID: I8062912A.csv ICS Source: MTMSICSAW_00015
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Strontium		0.159	
Aluminum	50000	50450	101
Antimony		0.113	
Arsenic		0.345	
Barium		0.0630	
Beryllium		-0.0030	
Boron		-0.246	
Cadmium		-0.325	
Calcium	50000	48660	97
Chromium		0.376	
Cobalt		0.0900	
Copper		0.904	
Iron	50000	51070	102
Lead		0.138	
Magnesium	50000	51780	104
Manganese		0.0590	
Molybdenum	1000	1034	103
Nickel		0.414	
Potassium	50000	47890	96
Selenium		-0.0200	
Silver		0.0190	
Sodium	50000	51630	103
Thallium		-0.0620	
Tin		0.0820	
Titanium	1000	1041	104
Tungsten		0.0390	
Vanadium		-0.0940	
Zinc		1.88	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-49560/9 Instrument ID: I8
 Lab File ID: I8062912A.csv ICS Source: MTMSICSABW_00015
 Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Strontium	100	94.0	94
<i>Aluminum</i>	<i>50000</i>	<i>48910</i>	<i>98</i>
<i>Antimony</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Arsenic</i>	<i>100</i>	<i>96.9</i>	<i>97</i>
<i>Barium</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Beryllium</i>	<i>100</i>	<i>104</i>	<i>104</i>
<i>Boron</i>	<i>100</i>	<i>104</i>	<i>104</i>
<i>Cadmium</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Calcium</i>	<i>50000</i>	<i>48480</i>	<i>97</i>
<i>Chromium</i>	<i>100</i>	<i>98.8</i>	<i>99</i>
<i>Cobalt</i>	<i>100</i>	<i>97.3</i>	<i>97</i>
<i>Copper</i>	<i>100</i>	<i>97.2</i>	<i>97</i>
<i>Iron</i>	<i>50000</i>	<i>51350</i>	<i>103</i>
<i>Lead</i>	<i>100</i>	<i>107</i>	<i>107</i>
<i>Magnesium</i>	<i>50000</i>	<i>50880</i>	<i>102</i>
<i>Manganese</i>	<i>100</i>	<i>106</i>	<i>106</i>
<i>Molybdenum</i>	<i>1100</i>	<i>1136</i>	<i>103</i>
<i>Nickel</i>	<i>100</i>	<i>99.3</i>	<i>99</i>
<i>Potassium</i>	<i>50000</i>	<i>46860</i>	<i>94</i>
<i>Selenium</i>	<i>100</i>	<i>97.5</i>	<i>98</i>
<i>Silver</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Sodium</i>	<i>50000</i>	<i>50730</i>	<i>101</i>
<i>Thallium</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Tin</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Titanium</i>	<i>1100</i>	<i>1145</i>	<i>104</i>
<i>Tungsten</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Vanadium</i>	<i>100</i>	<i>98.1</i>	<i>98</i>
<i>Zinc</i>	<i>100</i>	<i>102</i>	<i>102</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-50170/8 Instrument ID: I8
 Lab File ID: I8070612A.csv ICS Source: MTMSICSAW_00015
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Strontium		0.301	
<i>Aluminum</i>	50000	51460	103
<i>Antimony</i>		0.181	
<i>Arsenic</i>		0.141	
<i>Barium</i>		0.125	
<i>Beryllium</i>		0.0330	
<i>Boron</i>		-0.564	
<i>Cadmium</i>		-0.377	
<i>Calcium</i>	50000	51550	103
<i>Chromium</i>		0.584	
<i>Cobalt</i>		0.0920	
<i>Copper</i>		0.791	
<i>Iron</i>	50000	51290	103
<i>Lead</i>		0.185	
<i>Magnesium</i>	50000	52010	104
<i>Manganese</i>		0.444	
<i>Molybdenum</i>	1000	1040	104
<i>Nickel</i>		0.551	
<i>Potassium</i>	50000	51560	103
<i>Selenium</i>		0.0650	
<i>Silver</i>		0.0490	
<i>Sodium</i>	50000	52850	106
<i>Thallium</i>		0.0610	
<i>Tin</i>		0.187	
<i>Titanium</i>	1000	1051	105
<i>Tungsten</i>		0.201	
<i>Vanadium</i>		0.269	
<i>Zinc</i>		1.69	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-50170/9 Instrument ID: I8
 Lab File ID: I8070612A.csv ICS Source: MTMSICSABW_00015
 Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Strontium	100	94.3	94
<i>Aluminum</i>	<i>50000</i>	<i>50200</i>	<i>100</i>
<i>Antimony</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Arsenic</i>	<i>100</i>	<i>98.6</i>	<i>99</i>
<i>Barium</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Beryllium</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Boron</i>	<i>100</i>	<i>96.9</i>	<i>97</i>
<i>Cadmium</i>	<i>100</i>	<i>99.5</i>	<i>99</i>
<i>Calcium</i>	<i>50000</i>	<i>51350</i>	<i>103</i>
<i>Chromium</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Cobalt</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Copper</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Iron</i>	<i>50000</i>	<i>50640</i>	<i>101</i>
<i>Lead</i>	<i>100</i>	<i>104</i>	<i>104</i>
<i>Magnesium</i>	<i>50000</i>	<i>51060</i>	<i>102</i>
<i>Manganese</i>	<i>100</i>	<i>91.0</i>	<i>91</i>
<i>Molybdenum</i>	<i>1100</i>	<i>1143</i>	<i>104</i>
<i>Nickel</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Potassium</i>	<i>50000</i>	<i>51540</i>	<i>103</i>
<i>Selenium</i>	<i>100</i>	<i>98.4</i>	<i>98</i>
<i>Silver</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Sodium</i>	<i>50000</i>	<i>51830</i>	<i>104</i>
<i>Thallium</i>	<i>100</i>	<i>97.3</i>	<i>97</i>
<i>Tin</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Titanium</i>	<i>1100</i>	<i>1120</i>	<i>102</i>
<i>Tungsten</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Vanadium</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Zinc</i>	<i>100</i>	<i>103</i>	<i>103</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-49161/2-A

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

Sample Matrix: Water

LCS Source: MTICP1_00017

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Barium	2000	2260		113	80	120		6010B
Boron	1000	1130		113	80	120		6010B
Calcium	50000	52100		104	80	120		6010B
Chromium	200	207		104	80	120		6010B
Iron	1000	1070		107	80	120		6010B
Potassium	50000	52700		105	80	120		6010B
Magnesium	50000	50000		100	80	120		6010B
Manganese	500	529		106	80	120		6010B
Sodium	50000	53700		107	80	120		6010B
Nickel	500	512		102	80	120		6010B
Lead	500	512		102	80	120		6010B
Zinc	500	518		104	80	120		6010B
Lithium	1000	1050		105	80	120		6010B
SiO2, Silica	2140	2430		114	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-49871/2-A

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

Sample Matrix: Water

LCS Source: MTICP1_00017

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Barium	2000	2070		103	80	120		6010B
Boron	1000	1040		104	80	120		6010B
Calcium	50000	51500		103	80	120		6010B
Chromium	200	196		98	80	120		6010B
Iron	1000	1040		104	80	120		6010B
Potassium	50000	50700		101	80	120		6010B
Magnesium	50000	50500		101	80	120		6010B
Manganese	500	497		99	80	120		6010B
Sodium	50000	51400		103	80	120		6010B
Nickel	500	482		96	80	120		6010B
Lead	500	483		97	80	120		6010B
Zinc	500	504		101	80	120		6010B
Lithium	1000	1000		100	80	120		6010B
SiO2, Silica	2140	2260		106	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-49161/3-A

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

Sample Matrix: Water

LCS Source: MTICPMSA_00008

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Strontium	1000	925		92	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-49878/2-A

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

Sample Matrix: Water

LCS Source: MTICPMSA_00008

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Strontium	1000	865		86	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: I9
Method: 6010B MDL Date: 02/08/2010 14:19
Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Barium	493.409	200	0.67
Boron	249.678	200	34
Calcium	317.933	5000	130
Chromium	267.716	5	2.2
Iron	271.441	100	81
Lead	220.353	3	1.9
Lithium	670.7	50	1.81
Magnesium	279.078	5000	34
Manganese	257.610	15	0.41
Nickel	231.604	40	3.2
Potassium	766.491	5000	72
SiO2, Silica	251.6	1070	14
Sodium	330.232	5000	590
Zinc	213.856	20	5
Zinc	213.856	50	5

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: I9
Method: 6010B XMDL Date: 02/08/2010 14:19

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Barium	493.409	200	0.67
Boron	249.678	200	34
Calcium	317.933	5000	130
Chromium	267.716	5	2.2
Iron	271.441	100	81
Lead	220.353	3	1.9
Lithium	670.7	50	1.81
Magnesium	279.078	5000	34
Manganese	257.610	15	0.41
Nickel	231.604	40	3.2
Potassium	766.491	5000	72
SiO2, Silica	251.6	1070	14
Sodium	330.232	5000	590
Zinc	213.856	20	5

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: I8
Method: 6020 MDL Date: 02/09/2010 15:53
Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Strontium	88.00	10	0.33

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: I8
Method: 6020 XMDL Date: 02/09/2010 15:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Strontium	88.00	10	0.33

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-12605-1

SDG No.: _____

ICP-AES Instrument ID: I9 Date: 03/29/2012

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.025824					0.103533
Antimony		-0.000079			-0.000396			-0.000019							0.002225
Arsenic		0.000032			-0.000950	0.000872			-0.000355	0.002557					
Barium															
Beryllium															0.000671
Boron															
Cadmium			0.016268					-0.000006							
Calcium															
Chromium															
Cobalt													0.002095		
Copper				0.000029	0.000378			0.000029							
Iron															
Lead		-0.000103					0.000401	0.000041			0.000228	0.000069			
Lithium				0.000084											
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000077							
Potassium															
Selenium									0.000338						
Silver															
Sodium															
Strontium															
Thallium					0.003114				0.000571				-0.000545		-0.001094
Tin															
Titanium															
Vanadium								0.000050							
Zinc						-0.000592									

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-12605-1

SDG No.: _____

Instrument ID: I9

Date: 11/01/2011 11:52

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Barium		25000	6010B
Boron		20000	6010B
Calcium		500000	6010B
Chromium		20000	6010B
Iron		500000	6010B
Potassium		500000	6010B
Magnesium		500000	6010B
Manganese		15000	6010B
Sodium		500000	6010B
Nickel		30000	6010B
Lead		15000	6010B
Zinc		10000	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-12605-1

SDG No.: _____

Instrument ID: I8

Date: 06/18/2012 15:26

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Strontium		10000	6020

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-49161/1-A	06/28/2012 06:51	49161		50	50
LCS 240-49161/2-A	06/28/2012 06:51	49161		50	50
240-12605-2	06/28/2012 06:51	49161		50	50
240-12605-3	06/28/2012 06:51	49161		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-49868/1-B	07/05/2012 09:37	49871		50	50
LCS 240-49871/2-A	07/05/2012 09:37	49871		50	50
240-12605-1	07/05/2012 09:37	49871		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-49161/1-A	06/28/2012 06:51	49161		50	50
LCS 240-49161/3-A	06/28/2012 06:51	49161		50	50
240-12605-2	06/28/2012 06:51	49161		50	50
240-12605-3	06/28/2012 06:51	49161		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-49868/1-C	07/05/2012 09:46	49878		50	50
LCS 240-49878/2-A	07/05/2012 09:46	49878		50	50
240-12605-1	07/05/2012 10:03	49878		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 06/29/2012 10:27 End Date: 06/29/2012 22:14

Lab Sample ID	D / F	T y p e	Time	Analytes																
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n			
ICIS 240-49561/1	1		10:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CALSTD 240-49561/2 IC			10:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CALSTD 240-49561/3 IC			10:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICV 240-49561/4	1		10:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICB 240-49561/5	1		10:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CRI 240-49561/6	1		10:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			10:50																	
ICSA 240-49561/8	1		10:54	X	X	X	X	X	X	X	X	X	X	X	X		X			
ICSAB 240-49561/9	1		10:58	X	X	X	X	X	X	X	X	X	X	X	X		X			
CCV 240-49561/10			11:02																	
CCB 240-49561/11			11:06																	
ZZZZZZ			11:09																	
ZZZZZZ			11:13																	
ZZZZZZ			11:17																	
ZZZZZZ			11:21																	
ZZZZZZ			11:24																	
ZZZZZZ			11:28																	
ZZZZZZ			11:32																	
ZZZZZZ			11:36																	
ZZZZZZ			11:40																	
ZZZZZZ			11:44																	
CCV 240-49561/22			11:48																	
CCB 240-49561/23			11:52																	
ZZZZZZ			11:56																	
ZZZZZZ			11:59																	
ZZZZZZ			12:03																	
ZZZZZZ			12:07																	
ZZZZZZ			12:11																	
ZZZZZZ			12:15																	
ZZZZZZ			12:19																	
ZZZZZZ			12:22																	
ZZZZZZ			12:26																	
ZZZZZZ			12:30																	
CCV 240-49561/34			12:34																	
CCB 240-49561/35			12:38																	
ZZZZZZ			12:41																	
ZZZZZZ			12:45																	
ZZZZZZ			12:49																	
ZZZZZZ			12:53																	
ZZZZZZ			12:57																	
ZZZZZZ			13:01																	
ZZZZZZ			13:05																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 06/29/2012 10:27 End Date: 06/29/2012 22:14

Lab Sample ID	D / F	T y p e	Time	Analytes															
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n		
ZZZZZZ			13:08																
ZZZZZZ			13:12																
ZZZZZZ			13:16																
CCV 240-49561/46			13:20																
CCB 240-49561/47			13:24																
ZZZZZZ			13:27																
ZZZZZZ			13:31																
ZZZZZZ			13:35																
ZZZZZZ			13:39																
ZZZZZZ			13:43																
ZZZZZZ			13:47																
ZZZZZZ			13:51																
ZZZZZZ			13:54																
ZZZZZZ			13:58																
ZZZZZZ			14:02																
CCV 240-49561/58			14:06																
CCB 240-49561/59			14:10																
ZZZZZZ			14:14																
ZZZZZZ			14:18																
ZZZZZZ			14:22																
ZZZZZZ			14:26																
ZZZZZZ			14:30																
ZZZZZZ			14:34																
ZZZZZZ			14:38																
ZZZZZZ			14:41																
ZZZZZZ			14:45																
ZZZZZZ			14:49																
CCV 240-49561/70			14:53																
CCB 240-49561/71			14:57																
ZZZZZZ			15:01																
ZZZZZZ			15:04																
ZZZZZZ			15:09																
ZZZZZZ			15:13																
ZZZZZZ			15:16																
ZZZZZZ			15:20																
ZZZZZZ			15:24																
ZZZZZZ			15:28																
ZZZZZZ			15:32																
ZZZZZZ			15:36																
CCV 240-49561/82			15:40																
CCB 240-49561/83			15:43																
ZZZZZZ			15:47																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 06/29/2012 10:27 End Date: 06/29/2012 22:14

Lab Sample ID	D / F	T y p e	Time	Analytes															
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n		
ZZZZZZ			15:51																
ZZZZZZ			15:55																
ZZZZZZ			15:59																
ZZZZZZ			16:03																
ZZZZZZ			16:07																
ZZZZZZ			16:11																
ZZZZZZ			16:15																
ZZZZZZ			16:19																
ZZZZZZ			16:23																
CCV 240-49561/94	1		16:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 240-49561/95	1		16:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MB 240-49161/1-A	1	R	16:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LCS 240-49161/2-A	1	R	16:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			16:42																
ZZZZZZ			16:46																
ZZZZZZ			16:50																
ZZZZZZ			16:54																
ZZZZZZ			16:57																
ZZZZZZ			17:01																
ZZZZZZ			17:05																
ZZZZZZ			17:09																
CCV 240-49561/106	1		17:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 240-49561/107	1		17:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			17:21																
ZZZZZZ			17:24																
ZZZZZZ			17:28																
ZZZZZZ			17:32																
ZZZZZZ			17:36																
240-12605-2	1	D	17:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-12605-3	1	D	17:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			17:48																
ZZZZZZ			17:51																
ZZZZZZ			17:55																
CCV 240-49561/118	1		17:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 240-49561/119	1		18:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			18:07																
ZZZZZZ			18:11																
ZZZZZZ			18:14																
ZZZZZZ			18:18																
ZZZZZZ			18:22																
ZZZZZZ			18:26																
ZZZZZZ			18:29																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 06/29/2012 10:27 End Date: 06/29/2012 22:14

Lab Sample ID	D / F	T y p e	Time	Analytes															
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n		
ZZZZZZ			18:33																
ZZZZZZ			18:37																
ZZZZZZ			18:41																
CCV 240-49561/130			18:45																
CCB 240-49561/131			18:49																
ZZZZZZ			18:53																
ZZZZZZ			18:57																
ZZZZZZ			19:01																
ZZZZZZ			19:05																
ZZZZZZ			19:09																
ZZZZZZ			19:13																
ZZZZZZ			19:17																
ZZZZZZ			19:21																
ZZZZZZ			19:25																
ZZZZZZ			19:29																
CCV 240-49561/142			19:33																
CCB 240-49561/143			19:37																
ZZZZZZ			19:40																
ZZZZZZ			19:44																
ZZZZZZ			19:48																
ZZZZZZ			19:52																
ZZZZZZ			19:56																
ZZZZZZ			20:00																
ZZZZZZ			20:04																
ZZZZZZ			20:08																
ZZZZZZ			20:12																
ZZZZZZ			20:16																
CCV 240-49561/154			20:21																
CCB 240-49561/155			20:24																
ZZZZZZ			20:28																
ZZZZZZ			20:32																
ZZZZZZ			20:36																
ZZZZZZ			20:40																
ZZZZZZ			20:44																
ZZZZZZ			20:48																
ZZZZZZ			20:52																
ZZZZZZ			20:56																
ZZZZZZ			21:00																
ZZZZZZ			21:04																
CCV 240-49561/166			21:08																
CCB 240-49561/167			21:12																
ZZZZZZ			21:16																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 06/29/2012 10:27 End Date: 06/29/2012 22:14

Lab Sample ID	D / F	T y p e	Time	Analytes																
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n			
ZZZZZZ			21:20																	
ZZZZZZ			21:24																	
ZZZZZZ			21:28																	
ZZZZZZ			21:32																	
ZZZZZZ			21:36																	
ZZZZZZ			21:39																	
ZZZZZZ			21:43																	
ZZZZZZ			21:48																	
ZZZZZZ			21:51																	
CCV 240-49561/178			21:55																	
CCB 240-49561/179			21:59																	
ZZZZZZ			22:03																	
ZZZZZZ			22:07																	
CCV 240-49561/182			22:10																	
CCB 240-49561/183			22:14																	

Prep Types

D = Dissolved

P = TCLP

R = Total Recoverable

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 07/06/2012 15:14 End Date: 07/07/2012 02:51

Lab Sample ID	D / F	T y p e	Time	Analytes																
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n			
ICIS 240-50182/1	1		15:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CALSTD 240-50182/2 IC			15:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CALSTD 240-50182/3 IC			15:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICV 240-50182/4	1		15:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICB 240-50182/5	1		15:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CRI 240-50182/6	1		15:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			15:37																	
ICSA 240-50182/8	1		15:41	X	X	X	X	X	X	X	X	X	X	X	X		X			
ICSAB 240-50182/9	1		15:45	X	X	X	X	X	X	X	X	X	X	X	X		X			
CCV 240-50182/10	1		15:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-50182/11	1		15:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			15:57																	
ZZZZZZ			16:00																	
ZZZZZZ			16:04																	
ZZZZZZ			16:08																	
ZZZZZZ			16:12																	
ZZZZZZ			16:16																	
CRI 240-50182/18			16:19																	
MB 240-49868/1-B	1	D	16:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCS 240-49871/2-A	1	R	16:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			16:31																	
CCV 240-50182/22	1		16:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-50182/23	1		16:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			16:43																	
ZZZZZZ			16:46																	
ZZZZZZ			16:50																	
ZZZZZZ			16:54																	
ZZZZZZ			16:58																	
ZZZZZZ			17:02																	
ZZZZZZ			17:06																	
ZZZZZZ			17:10																	
ZZZZZZ			17:14																	
ZZZZZZ			17:17																	
CCV 240-50182/34			17:21																	
CCB 240-50182/35			17:25																	
ZZZZZZ			17:29																	
ZZZZZZ			17:33																	
ZZZZZZ			17:36																	
ZZZZZZ			17:41																	
ZZZZZZ			17:45																	
ZZZZZZ			17:48																	
ZZZZZZ			17:52																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 07/06/2012 15:14 End Date: 07/07/2012 02:51

Lab Sample ID	D / F	T y p e	Time	Analytes															
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n		
ZZZZZZ			17:56																
ZZZZZZ			18:00																
ZZZZZZ			18:04																
CCV 240-50182/46			18:08																
CCB 240-50182/47			18:12																
ZZZZZZ			18:16																
ZZZZZZ			18:20																
ZZZZZZ			18:23																
ZZZZZZ			18:27																
ZZZZZZ			18:31																
ZZZZZZ			18:35																
ZZZZZZ			18:39																
ZZZZZZ			18:43																
ZZZZZZ			18:47																
ZZZZZZ			18:51																
CCV 240-50182/58			18:55																
CCB 240-50182/59			18:58																
ZZZZZZ			19:02																
ZZZZZZ			19:06																
ZZZZZZ			19:10																
ZZZZZZ			19:14																
ZZZZZZ			19:18																
ZZZZZZ			19:22																
ZZZZZZ			19:25																
ZZZZZZ			19:29																
ZZZZZZ			19:33																
ZZZZZZ			19:37																
CCV 240-50182/70			19:41																
CCB 240-50182/71			19:45																
ZZZZZZ			19:49																
ZZZZZZ			19:53																
ZZZZZZ			19:56																
ZZZZZZ			20:00																
ZZZZZZ			20:04																
ZZZZZZ			20:08																
ZZZZZZ			20:12																
ZZZZZZ			20:16																
ZZZZZZ			20:20																
ZZZZZZ			20:24																
CCV 240-50182/82			20:28																
CCB 240-50182/83			20:32																
ZZZZZZ			20:35																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 07/06/2012 15:14 End Date: 07/07/2012 02:51

Lab Sample ID	D / F	T y p e	Time	Analytes															
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n		
ZZZZZZ			20:39																
ZZZZZZ			20:43																
ZZZZZZ			20:47																
ZZZZZZ			20:50																
ZZZZZZ			20:54																
ZZZZZZ			20:58																
ZZZZZZ			21:02																
ZZZZZZ			21:05																
ZZZZZZ			21:09																
CCV 240-50182/94			21:14																
CCB 240-50182/95			21:17																
ZZZZZZ			21:21																
ZZZZZZ			21:25																
ZZZZZZ			21:29																
ZZZZZZ			21:33																
ZZZZZZ			21:37																
ZZZZZZ			21:41																
ZZZZZZ			21:45																
ZZZZZZ			21:49																
ZZZZZZ			21:53																
ZZZZZZ			21:57																
CCV 240-50182/106			22:01																
CCB 240-50182/107			22:04																
ZZZZZZ			22:08																
ZZZZZZ			22:12																
ZZZZZZ			22:16																
ZZZZZZ			22:20																
ZZZZZZ			22:24																
ZZZZZZ			22:27																
ZZZZZZ			22:31																
ZZZZZZ			22:35																
ZZZZZZ			22:38																
ZZZZZZ			22:42																
CCV 240-50182/118			22:46																
CCB 240-50182/119			22:50																
ZZZZZZ			22:54																
ZZZZZZ			22:58																
ZZZZZZ			23:02																
ZZZZZZ			23:06																
ZZZZZZ			23:09																
ZZZZZZ			23:13																
ZZZZZZ			23:18																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 07/06/2012 15:14 End Date: 07/07/2012 02:51

Lab Sample ID	D / F	T y p e	Time	Analytes															
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n		
ZZZZZZ			23:21																
ZZZZZZ			23:25																
ZZZZZZ			23:30																
CCV 240-50182/130			23:34																
CCB 240-50182/131			23:38																
ZZZZZZ			23:42																
ZZZZZZ			23:46																
ZZZZZZ			23:49																
ZZZZZZ			23:53																
ZZZZZZ			23:57																
ZZZZZZ			00:00																
ZZZZZZ			00:05																
ZZZZZZ			00:09																
ZZZZZZ			00:13																
ZZZZZZ			00:17																
CCV 240-50182/142			00:21																
CCB 240-50182/143			00:24																
ZZZZZZ			00:28																
ZZZZZZ			00:32																
ZZZZZZ			00:36																
ZZZZZZ			00:40																
ZZZZZZ			00:44																
ZZZZZZ			00:48																
ZZZZZZ			00:52																
ZZZZZZ			00:56																
ZZZZZZ			00:59																
ZZZZZZ			01:03																
CCV 240-50182/154			01:07																
CCB 240-50182/155			01:11																
ZZZZZZ			01:18																
ZZZZZZ			01:22																
ZZZZZZ			01:26																
ZZZZZZ			01:30																
ZZZZZZ			01:34																
ZZZZZZ			01:38																
ZZZZZZ			01:42																
ZZZZZZ			01:46																
ZZZZZZ			01:50																
CCV 240-50182/165	1		01:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 240-50182/166	1		01:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			02:02																
ZZZZZZ			02:05																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 07/06/2012 15:14 End Date: 07/07/2012 02:51

Lab Sample ID	D / F	T y p e	Time	Analytes															
				B	B a	C a	C r	F e	K	L i	M g	M n	N a	N i	P b	S i O 2	Z n		
ZZZZZZ			02:09																
ZZZZZZ			02:13																
ZZZZZZ			02:17																
ZZZZZZ			02:20																
ZZZZZZ			02:24																
ZZZZZZ			02:28																
240-12605-1	1	D	02:32	X	X	X	X		X	X		X		X	X	X	X		
CRI 240-50182/176			02:36																
CCV 240-50182/177	1		02:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 240-50182/178	1		02:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV 240-50182/179			02:47																
CCB 240-50182/180			02:51																

Prep Types

D = Dissolved

R = Total Recoverable

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 07/09/2012 11:45 End Date: 07/09/2012 19:28

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	M g	N a															
ICIS 240-50312/1	1		11:45	X	X	X															
CALSTD 240-50312/2 IC			11:49	X	X	X															
CALSTD 240-50312/3 IC			11:53	X	X	X															
ICV 240-50312/4	1		11:57	X	X	X															
ICB 240-50312/5	1		12:01	X	X	X															
CRI 240-50312/6	1		12:05	X	X	X															
ZZZZZZ			12:09																		
ICSA 240-50312/8	1		12:12	X	X	X															
ICSAB 240-50312/9	1		12:16	X	X	X															
CCV 240-50312/10			12:20																		
CCB 240-50312/11			12:24																		
ZZZZZZ			12:28																		
ZZZZZZ			12:32																		
ZZZZZZ			12:36																		
ZZZZZZ			12:39																		
ZZZZZZ			12:43																		
ZZZZZZ			12:47																		
ZZZZZZ			12:51																		
ZZZZZZ			12:55																		
ZZZZZZ			12:58																		
ZZZZZZ			13:02																		
CCV 240-50312/22			13:06																		
CCB 240-50312/23			13:10																		
ZZZZZZ			13:14																		
ZZZZZZ			13:18																		
CRI 240-50312/26			13:22																		
ZZZZZZ			13:26																		
ZZZZZZ			13:58																		
ZZZZZZ			14:02																		
ZZZZZZ			14:05																		
ZZZZZZ			14:09																		
ZZZZZZ			14:13																		
ZZZZZZ			14:17																		
CCV 240-50312/34			14:20																		
CCB 240-50312/35			14:24																		
ZZZZZZ			14:28																		
ZZZZZZ			14:32																		
ZZZZZZ			14:36																		
ZZZZZZ			14:40																		
ZZZZZZ			14:44																		
ZZZZZZ			14:48																		
CRI 240-50312/42			14:51																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 07/09/2012 11:45 End Date: 07/09/2012 19:28

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	M g	N a															
ZZZZZZ			14:55																		
ZZZZZZ			14:59																		
ZZZZZZ			15:03																		
CCV 240-50312/46			15:07																		
CCB 240-50312/47			15:11																		
ZZZZZZ			15:15																		
ZZZZZZ			15:19																		
ZZZZZZ			15:23																		
ZZZZZZ			15:27																		
ZZZZZZ			15:31																		
ZZZZZZ			15:35																		
ZZZZZZ			15:39																		
ZZZZZZ			15:44																		
ZZZZZZ			15:48																		
ZZZZZZ			15:52																		
CCV 240-50312/58			15:55																		
CCB 240-50312/59			15:59																		
ZZZZZZ			16:03																		
ZZZZZZ			16:07																		
ZZZZZZ			16:11																		
ZZZZZZ			16:15																		
ZZZZZZ			16:19																		
CRI 240-50312/65			16:23																		
ZZZZZZ			16:26																		
ZZZZZZ			16:30																		
ZZZZZZ			16:34																		
ZZZZZZ			16:38																		
CCV 240-50312/70			16:42																		
CCB 240-50312/71			16:46																		
ZZZZZZ			16:50																		
ZZZZZZ			16:54																		
ZZZZZZ			16:58																		
ZZZZZZ			17:02																		
ZZZZZZ			17:06																		
ZZZZZZ			17:10																		
ZZZZZZ			17:14																		
ZZZZZZ			17:18																		
ZZZZZZ			17:22																		
ZZZZZZ			17:26																		
CCV 240-50312/82			17:30																		
CCB 240-50312/83			17:34																		
ZZZZZZ			17:38																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I9 Method: 6010B

Start Date: 07/09/2012 11:45 End Date: 07/09/2012 19:28

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	M g	N a															
ZZZZZZ			17:42																		
ZZZZZZ			17:46																		
ZZZZZZ			17:50																		
ZZZZZZ			17:54																		
ZZZZZZ			17:58																		
ZZZZZZ			18:02																		
ZZZZZZ			18:06																		
ZZZZZZ			18:10																		
ZZZZZZ			18:14																		
CCV 240-50312/94	1		18:17	X	X	X															
CCB 240-50312/95	1		18:21	X	X	X															
ZZZZZZ			18:25																		
ZZZZZZ			18:29																		
ZZZZZZ			18:33																		
ZZZZZZ			18:37																		
ZZZZZZ			18:41																		
ZZZZZZ			18:45																		
ZZZZZZ			18:49																		
240-12605-1	1	D	18:53	X	X	X															
ZZZZZZ			18:56																		
ZZZZZZ			19:00																		
CCV 240-50312/106	1		19:04	X	X	X															
CCB 240-50312/107	1		19:08	X	X	X															
ZZZZZZ			19:12																		
ZZZZZZ			19:16																		
ZZZZZZ			19:20																		
CCV 240-50312/111			19:24																		
CCB 240-50312/112			19:28																		

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 06/29/2012 08:07 End Date: 06/30/2012 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S r																	
ICIS 240-49560/1			08:07	X																	
STD2 240-49560/2 IC			08:13	X																	
STD3 240-49560/3 IC			08:21	X																	
STD4 240-49560/4 IC	1		08:28	X																	
ICV 240-49560/5	1		08:34	X																	
ICB 240-49560/6	1		08:41	X																	
CRI 240-49560/7			08:47																		
ICSA 240-49560/8	1		08:52	X																	
ICSAB 240-49560/9	1		08:58	X																	
CCV 240-49560/10			09:05																		
CCB 240-49560/11			09:13																		
CRI 240-49560/12	1		09:18	X																	
CCV 240-49560/13			09:24																		
CCB 240-49560/14			09:31																		
ZZZZZZ			09:37																		
ZZZZZZ			09:43																		
ZZZZZZ			09:49																		
ZZZZZZ			09:54																		
ZZZZZZ			10:01																		
ZZZZZZ			10:07																		
ZZZZZZ			10:13																		
ZZZZZZ			10:18																		
ZZZZZZ			10:24																		
ZZZZZZ			10:30																		
CCV 240-49560/25			10:35																		
CCB 240-49560/26			10:42																		
ZZZZZZ			10:49																		
ZZZZZZ			10:54																		
ZZZZZZ			11:00																		
ZZZZZZ			11:06																		
ZZZZZZ			11:11																		
ZZZZZZ			11:17																		
ZZZZZZ			11:24																		
ZZZZZZ			11:30																		
ZZZZZZ			11:36																		
ZZZZZZ			11:43																		
CCV 240-49560/37			11:50																		
CCB 240-49560/38			11:58																		
ZZZZZZ			12:03																		
ZZZZZZ			12:09																		
ZZZZZZ			12:15																		
ZZZZZZ			12:20																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 06/29/2012 08:07 End Date: 06/30/2012 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S r																	
ZZZZZZ			12:26																		
ZZZZZZ			12:32																		
ZZZZZZ			12:37																		
ZZZZZZ			12:43																		
ZZZZZZ			12:49																		
ZZZZZZ			12:54																		
CCV 240-49560/49	1		13:00	X																	
CCB 240-49560/50	1		13:07	X																	
ZZZZZZ			13:12																		
ZZZZZZ			13:18																		
ZZZZZZ			13:24																		
ZZZZZZ			13:29																		
ZZZZZZ			13:35																		
ZZZZZZ			13:41																		
ZZZZZZ			13:47																		
ZZZZZZ			13:52																		
ZZZZZZ			13:58																		
MB 240-49161/1-A	1	R	14:04	X																	
CCV 240-49560/61	1		14:09	X																	
CCB 240-49560/62	1		14:16	X																	
LCS 240-49161/3-A	1	R	14:22	X																	
ZZZZZZ			14:29																		
ZZZZZZ			14:35																		
ZZZZZZ			14:41																		
ZZZZZZ			14:48																		
ZZZZZZ			14:56																		
ZZZZZZ			15:01																		
ZZZZZZ			15:07																		
ZZZZZZ			15:13																		
ZZZZZZ			15:18																		
CCV 240-49560/73	1		15:24	X																	
CCB 240-49560/74	1		15:31	X																	
ZZZZZZ			15:37																		
ZZZZZZ			15:43																		
ZZZZZZ			15:48																		
ZZZZZZ			15:54																		
240-12605-2	1	D	16:00	X																	
240-12605-3	1	D	16:05	X																	
ZZZZZZ			16:11																		
ZZZZZZ			16:17																		
ZZZZZZ			16:22																		
ZZZZZZ			16:28																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 06/29/2012 08:07 End Date: 06/30/2012 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S r																	
CCV 240-49560/85	1		16:34	X																	
CCB 240-49560/86	1		16:41	X																	
ZZZZZZ			16:46																		
ZZZZZZ			16:52																		
ZZZZZZ			16:58																		
ZZZZZZ			17:03																		
ZZZZZZ			17:09																		
ZZZZZZ			17:15																		
ZZZZZZ			17:21																		
ZZZZZZ			17:27																		
ZZZZZZ			17:33																		
ZZZZZZ			17:39																		
CCV 240-49560/97			17:46																		
CCB 240-49560/98			17:53																		
ZZZZZZ			17:59																		
ZZZZZZ			18:05																		
ZZZZZZ			18:10																		
ZZZZZZ			18:16																		
ZZZZZZ			18:22																		
ZZZZZZ			18:28																		
ZZZZZZ			18:33																		
ZZZZZZ			18:39																		
ZZZZZZ			18:45																		
ZZZZZZ			18:50																		
CCV 240-49560/109			18:56																		
CCB 240-49560/110			19:03																		
ZZZZZZ			19:08																		
ZZZZZZ			19:14																		
ZZZZZZ			19:20																		
ZZZZZZ			19:26																		
ZZZZZZ			19:32																		
ZZZZZZ			19:37																		
ZZZZZZ			19:43																		
CCV 240-49560/118			19:49																		
CCB 240-49560/119			19:55																		
ICSA 240-49560/120			20:01																		
ICSAB 240-49560/121			20:07																		
CCV 240-49560/122			20:14																		
CCB 240-49560/123			20:21																		
ZZZZZZ			20:27																		
ZZZZZZ			20:33																		
ZZZZZZ			20:38																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 06/29/2012 08:07 End Date: 06/30/2012 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S	r														
ZZZZZZ			20:44																
ZZZZZZ			20:52																
ZZZZZZ			20:57																
ZZZZZZ			21:05																
ZZZZZZ			21:10																
ZZZZZZ			21:16																
ZZZZZZ			21:22																
CCV 240-49560/134			21:28																
CCB 240-49560/135			21:34																
ZZZZZZ			21:40																
ZZZZZZ			21:46																
ZZZZZZ			21:51																
ZZZZZZ			21:57																
ZZZZZZ			22:03																
ZZZZZZ			22:08																
ZZZZZZ			22:14																
ZZZZZZ			22:20																
ZZZZZZ			22:26																
ZZZZZZ			22:31																
CCV 240-49560/146			22:37																
CCB 240-49560/147			22:43																
ZZZZZZ			22:49																
ZZZZZZ			22:55																
ZZZZZZ			23:02																
ZZZZZZ			23:08																
ZZZZZZ			23:15																
ZZZZZZ			23:23																
ZZZZZZ			23:28																
ZZZZZZ			23:34																
ZZZZZZ			23:40																
ZZZZZZ			23:45																
CCV 240-49560/158			23:51																
CCB 240-49560/159			23:57																
ZZZZZZ			00:03																
ZZZZZZ			00:09																
ZZZZZZ			00:14																
ZZZZZZ			00:20																
ZZZZZZ			00:26																
ZZZZZZ			00:32																
ZZZZZZ			00:37																
ZZZZZZ			00:43																
ZZZZZZ			00:49																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 06/29/2012 08:07 End Date: 06/30/2012 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S r																	
ZZZZZZ			00:55																		
CCV 240-49560/170			01:00																		
CCB 240-49560/171			01:06																		
ZZZZZZ			01:12																		
CCV 240-49560/173			01:18																		
CCB 240-49560/174			01:24																		
ZZZZZZ			01:29																		
ZZZZZZ			01:35																		
ZZZZZZ			01:41																		
ZZZZZZ			01:47																		
ZZZZZZ			01:53																		
ZZZZZZ			01:58																		
ZZZZZZ			02:04																		
ZZZZZZ			02:10																		
ZZZZZZ			02:16																		
ZZZZZZ			02:21																		

Prep Types

D = Dissolved

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 07/06/2012 08:21 End Date: 07/06/2012 21:03

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S r																	
ICIS 240-50170/1			08:21	X																	
STD2 240-50170/2 IC	1		08:27	X																	
STD3 240-50170/3 IC	1		08:32	X																	
STD4 240-50170/4 IC	1		08:38	X																	
ICV 240-50170/5	1		08:44	X																	
ICB 240-50170/6	1		08:50	X																	
CRI 240-50170/7	1		08:55	X																	
ICSA 240-50170/8	1		09:01	X																	
ICSAB 240-50170/9	1		09:07	X																	
CCV 240-50170/10	1		09:13	X																	
CCB 240-50170/11	1		09:19	X																	
MB 240-49868/1-C	1	D	09:25	X																	
LCS 240-49878/2-A	1	R	09:30	X																	
ZZZZZZ			09:37																		
ZZZZZZ			09:42																		
ZZZZZZ			09:48																		
ZZZZZZ			09:53																		
ZZZZZZ			10:00																		
ZZZZZZ			10:06																		
ZZZZZZ			10:11																		
ZZZZZZ			10:17																		
CCV 240-50170/22	1		10:22	X																	
CCB 240-50170/23	1		10:28	X																	
ZZZZZZ			10:34																		
ZZZZZZ			10:39																		
ZZZZZZ			10:45																		
ZZZZZZ			10:50																		
ZZZZZZ			10:55																		
ZZZZZZ			11:01																		
ZZZZZZ			11:07																		
ZZZZZZ			11:13																		
ZZZZZZ			11:18																		
ZZZZZZ			11:24																		
CCV 240-50170/34			11:30																		
CCB 240-50170/35			11:36																		
ZZZZZZ			11:41																		
ZZZZZZ			11:46																		
ZZZZZZ			11:52																		
ZZZZZZ			11:58																		
ZZZZZZ			12:03																		
ZZZZZZ			12:09																		
ZZZZZZ			12:15																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 07/06/2012 08:21 End Date: 07/06/2012 21:03

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S r															
ZZZZZZ			12:21																
ZZZZZZ			12:26																
ZZZZZZ			12:32																
CCV 240-50170/46	1		12:38	X															
CCB 240-50170/47	1		12:44	X															
ZZZZZZ			12:49																
ZZZZZZ			12:55																
ZZZZZZ			13:01																
ZZZZZZ			13:07																
240-12605-1	1	D	13:12	X															
ZZZZZZ			13:18																
ZZZZZZ			13:24																
ZZZZZZ			13:31																
ZZZZZZ			13:36																
ZZZZZZ			13:42																
CCV 240-50170/58	1		13:48	X															
CCB 240-50170/59	1		13:54	X															
ZZZZZZ			14:00																
ZZZZZZ			14:06																
ZZZZZZ			14:13																
ZZZZZZ			14:19																
ZZZZZZ			14:24																
ZZZZZZ			14:32																
ZZZZZZ			14:39																
ZZZZZZ			14:45																
ZZZZZZ			14:51																
ZZZZZZ			14:57																
CCV 240-50170/70			15:02																
CCB 240-50170/71			15:09																
ICSA 240-50170/72			15:14																
ICSAB 240-50170/73			15:20																
CCV 240-50170/74			15:26																
CCB 240-50170/75			15:33																
ZZZZZZ			15:38																
ZZZZZZ			15:44																
ZZZZZZ			15:50																
ZZZZZZ			15:56																
ZZZZZZ			16:02																
ZZZZZZ			16:07																
ZZZZZZ			16:13																
ZZZZZZ			16:19																
ZZZZZZ			16:25																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 07/06/2012 08:21 End Date: 07/06/2012 21:03

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S	r														
ZZZZZZ			16:30																
CCV 240-50170/86			16:36																
CCB 240-50170/87			16:42																
ZZZZZZ			16:48																
ZZZZZZ			16:53																
ZZZZZZ			16:59																
ZZZZZZ			17:05																
ZZZZZZ			17:11																
ZZZZZZ			17:16																
ZZZZZZ			17:24																
ZZZZZZ			17:29																
ZZZZZZ			17:37																
ZZZZZZ			17:44																
CCV 240-50170/98			17:50																
CCB 240-50170/99			17:57																
ZZZZZZ			18:02																
ZZZZZZ			18:08																
ZZZZZZ			18:14																
ZZZZZZ			18:21																
ZZZZZZ			18:26																
ZZZZZZ			18:33																
ZZZZZZ			18:41																
ZZZZZZ			18:46																
ZZZZZZ			18:53																
ZZZZZZ			18:59																
CCV 240-50170/110			19:05																
CCB 240-50170/111			19:11																
ZZZZZZ			19:17																
ZZZZZZ			19:24																
ZZZZZZ			19:31																
ZZZZZZ			19:37																
ZZZZZZ			19:42																
ZZZZZZ			19:48																
ZZZZZZ			19:54																
ZZZZZZ			20:00																
ZZZZZZ			20:05																
ZZZZZZ			20:11																
CCV 240-50170/122			20:17																
CCB 240-50170/123			20:23																
ZZZZZZ			20:29																
ZZZZZZ			20:34																
ZZZZZZ			20:40																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: I8 Method: 6020

Start Date: 07/06/2012 08:21 End Date: 07/06/2012 21:03

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S r																	
ZZZZZZ			20:46																		
ZZZZZZ			20:52																		
CCV 240-50170/129			20:57																		
CCB 240-50170/130			21:03																		

Prep Types

D = Dissolved

R = Total Recoverable

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICP-MS Instrument ID: I8 Start Date: 06/29/2012 End Date: 06/29/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q	Element In	Q
STD4 240-49560/4 IC	08:28	91		97		99		100		99	
ICV 240-49560/5	08:34	84		95		98		96		96	
ICB 240-49560/6	08:41	98		101		101		101		101	
ICSA 240-49560/8	08:52	69		82		81		83		86	
ICSAB 240-49560/9	08:58	60		80		83		85		88	
CRI 240-49560/12	09:18	84		87		89		89		91	
CCV 240-49560/49	13:00	74		90		92		91		92	
CCB 240-49560/50	13:07	91		98		100		98		98	
MB 240-49161/1-A	14:04	64		86		94		93		94	
CCV 240-49560/61	14:09	59		83		90		87		90	
CCB 240-49560/62	14:16	69		89		95		95		95	
LCS 240-49161/3-A	14:22	73		85		95		93		95	
CCV 240-49560/73	15:24	73		91		96		92		93	
CCB 240-49560/74	15:31	88		100		103		100		100	
240-12605-2	16:00	63		87		97		95		96	
240-12605-3	16:05	72		92		97		97		97	
CCV 240-49560/85	16:34	75		91		96		92		93	
CCB 240-49560/86	16:41	89		99		101		99		99	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICP-MS Instrument ID: I8 Start Date: 06/29/2012 End Date: 06/29/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD4 240-49560/4 IC	08:28			99							
ICV 240-49560/5	08:34			99							
ICB 240-49560/6	08:41			100							
ICSA 240-49560/8	08:52			89							
ICSAB 240-49560/9	08:58			93							
CRI 240-49560/12	09:18			95							
CCV 240-49560/49	13:00			95							
CCB 240-49560/50	13:07			97							
MB 240-49161/1-A	14:04			98							
CCV 240-49560/61	14:09			95							
CCB 240-49560/62	14:16			99							
LCS 240-49161/3-A	14:22			99							
CCV 240-49560/73	15:24			98							
CCB 240-49560/74	15:31			100							
240-12605-2	16:00			102							
240-12605-3	16:05			101							
CCV 240-49560/85	16:34			97							
CCB 240-49560/86	16:41			100							

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICP-MS Instrument ID: I8 Start Date: 07/06/2012 End Date: 07/06/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q	Element In	Q
STD2 240-50170/2 IC	08:27	80		95		119		113		112	
STD3 240-50170/3 IC	08:32	64		88		123	*	113		114	
STD4 240-50170/4 IC	08:38	101		101		102		103		103	
ICV 240-50170/5	08:44	86		96		113		108		109	
ICB 240-50170/6	08:50	107		103		104		103		103	
CRI 240-50170/7	08:55	107		103		100		99		100	
ICSA 240-50170/8	09:01	76		88		109		107		108	
ICSAB 240-50170/9	09:07	66		85		119		114		114	
CCV 240-50170/10	09:13	69		91		129	*	120		117	
CCB 240-50170/11	09:19	90		98		108		106		105	
MB 240-49868/1-C	09:25	90		98		104		103		102	
LCS 240-49878/2-A	09:30	84		91		104		101		102	
CCV 240-50170/22	10:22	72		89		116		109		108	
CCB 240-50170/23	10:28	98		97		101		99		99	
CCV 240-50170/46	12:38	68		77		105		98		98	
CCB 240-50170/47	12:44	88		87		95		91		91	
240-12605-1	13:12	81		83		99		91		90	
CCV 240-50170/58	13:48	53		71		111		101		101	
CCB 240-50170/59	13:54	80		84		93		88		89	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

ICP-MS Instrument ID: I8 Start Date: 07/06/2012 End Date: 07/06/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD2 240-50170/2 IC	08:27			111							
STD3 240-50170/3 IC	08:32			113							
STD4 240-50170/4 IC	08:38			102							
ICV 240-50170/5	08:44			108							
ICB 240-50170/6	08:50			101							
CRI 240-50170/7	08:55			98							
ICSA 240-50170/8	09:01			103							
ICSAB 240-50170/9	09:07			109							
CCV 240-50170/10	09:13			115							
CCB 240-50170/11	09:19			104							
MB 240-49868/1-C	09:25			101							
LCS 240-49878/2-A	09:30			101							
CCV 240-50170/22	10:22			107							
CCB 240-50170/23	10:28			96							
CCV 240-50170/46	12:38			94							
CCB 240-50170/47	12:44			86							
240-12605-1	13:12			86							
CCV 240-50170/58	13:48			96							
CCB 240-50170/59	13:54			83							

Sample Name: Blank Acquired: 6/29/2012 10:27:28 Type: Cal
Method: Standard Method + Strontium(v69) Mode: IR Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00155	.00434	.00104	.00220	.01393	.00054	.00996
Stddev	.00015	.00001	.00013	.00007	.00191	.00034	.00033
%RSD	9.8455	.19235	12.699	3.1550	13.712	62.521	3.2639

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0006	.00143	.00011	-.00411	.00067	.02480	.02874
Stddev	.0000	.00013	.00005	.00020	.00024	.00241	.00322
%RSD	7.286	8.7708	43.569	4.9248	35.944	9.7058	11.215

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00030	.00004	-.00023	.02372	.00368	.00046	.0023
Stddev	.00035	.00012	.00012	.00355	.00002	.00024	.0001
%RSD	115.62	280.48	52.318	14.948	.53483	52.088	3.662

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00035	.00151	.00156	-.00162	.00183	.00113	.00086
Stddev	.00005	.00008	.00007	.00015	.00036	.00019	.00014
%RSD	13.362	5.6185	4.5839	9.4470	19.572	16.990	16.171

Elem	Sr3464
IS Ref	(Y_3710)
Units	Cts/S
Avg	.00117
Stddev	.00110
%RSD	94.426

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10054.	7923.7	83079.	9976.4
Stddev	132.	104.8	666.	245.0
%RSD	1.3173	1.3224	.80188	2.4554

Sample Name: SCAL1 Acquired: 6/29/2012 10:31:16

Type: Cal

Method: Standard Method + Strontium(v69) Mode: IR

Corr. Factor: 1.000000

User: Roger Method: 6010B/6010C Method: 200.7

:

Comment:

Elem	Ag3280	As1890	B_1826	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.75835	.14568	6.1687	21.432	45.888	2.602	5.1099	1.5870
Stddev	.00090	.00031	.0131	.097	.365	.001	.0100	.0061
%RSD	.11804	.21235	.21229	.45469	.79637	.0557	.19490	.38286

Elem	Cu3273	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960
IS Ref	(Y_3600)	(Y_3710)	(Y_3600)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.82517	11.977	8.4751	5.4088	3.2588	.50298	.1647	.15011
Stddev	.00192	.054	.0064	.0085	.0068	.00076	.0002	.00044
%RSD	.23286	.45101	.07557	.15733	.20990	.15157	.1450	.29546

Elem	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Sr3464
IS Ref	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.9809	8.8315	.42028	.87180	7.8946	2.2878
Stddev	.0106	.0491	.00055	.00430	.0160	.0083
%RSD	.26517	.55615	.13026	.49308	.20247	.36049

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9655.8	7823.9	81333.	9918.6
Stddev	16.1	18.5	192.	41.0
%RSD	.16672	.23644	.23595	.41314

Sample Name: SCAL2 Acquired: 6/29/2012 10:35:20 Type: Cal
 Method: Standard Method + Strontium(v69) Mode: IR Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Al3082	Ca3179	Fe2599	K_7664	Mg2790	Na5895	Si2516
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1402	25.803	9.6306	4.5092	3.3187	17.720	.55538
Stddev	.0501	.638	.4157	.1905	.1381	.780	.02441
%RSD	4.3942	2.4718	4.3159	4.2253	4.1624	4.3997	4.3945

Int. Std.	Y_3710
Units	Cts/S
Avg	9955.9
Stddev	266.7
%RSD	2.6786

Sample Name: ICV Acquired: 6/29/2012 10:39:13 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	778.22	12616.	371.40	1533.2	W 1598.9	1547.3	26277.
Stddev	2.05	35.	2.03	11.3	4.5	4.5	78.
%RSD	.26318	.27539	.54684	.74005	.28332	.28782	.29718

107%

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value					1500.0		
Range					5.5000%		

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	371.2	1463.5	1507.9	1503.6	12803.	25619.	1000.7
Stddev	2.9	9.6	4.1	5.2	40.	93.	2.0
%RSD	.7779	.65762	.27411	.34497	.31109	.36425	.19805

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25907.	1522.9	1464.4	25807.	1452.3	365.00	378.2
Stddev	85.	.9	11.2	67.	9.5	4.76	2.5
%RSD	.32875	.06138	.76692	.25910	.65350	1.3035	.6662

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 6/29/2012 10:39:13 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	378.11	1493.9	1547.8	742.48	1502.6	1479.2	W 3258.6
Stddev	2.22	10.7	5.0	4.84	5.1	9.8	33.9
%RSD	.58738	.71785	.32505	.65183	.33950	.66570	1.0410

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							3000.0
Range							5.5000%

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4536.2
Stddev	6.2
%RSD	.13606

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9605.1	7828.9	80091.	9907.1
Stddev	41.9	39.9	221.	39.9
%RSD	.43581	.50952	.27612	.40240

Sample Name: ICB Acquired: 6/29/2012 10:43:01 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22593	-15.234	.92549	8.2254	-.24899	.07245	1.6638	-.0527
Stddev	.22224	35.968	.98124	.8117	.43394	.00718	.2175	.0147
%RSD	98.367	236.10	106.02	9.8684	174.28	9.9050	13.074	27.92

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09898	-.04235	1.1727	2.1298	-72.357	-8.6057	16.372	.09638
Stddev	.23452	.21371	.1940	.4336	28.848	1.4305	4.031	.02957
%RSD	236.94	504.59	16.540	20.359	39.869	16.623	24.619	30.682

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.55379	-23.094	.55403	.46769	-.9187	.51918	.59547	.09740
Stddev	.18811	10.300	.16459	.05579	1.129	.55561	.33216	.09579
%RSD	33.969	44.598	29.708	11.930	122.9	107.02	55.782	98.341

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB Acquired: 6/29/2012 10:43:01 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.39897	2.2703	.15703	-28.420	7.0646
Stddev	.62404	1.4625	.05445	11.570	2.1876
%RSD	156.41	64.420	34.677	40.712	30.965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10062.	7954.6	81161.	9991.6
Stddev	16.	15.4	270.	94.2
%RSD	.15980	.19419	.33262	.94327

Sample Name: CRI Acquired: 6/29/2012 10:46:50 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.3752	235.05	14.489	202.63	9.7817	5.0029	5190.1	4.917
Stddev	.6487	12.08	.532	.26	.5115	.1034	120.5	.151
%RSD	12.068	5.1376	3.6742	.12772	5.2295	2.0664	2.3208	3.068

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.5304	4.9195	15.376	315.64	4939.2	35.438	5372.3	15.351
Stddev	.1056	.0874	1.406	6.34	180.6	1.469	128.9	.133
%RSD	2.3312	1.7763	9.1425	2.0074	3.6567	4.1453	2.3992	.86638

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.7865	5099.2	23.929	9.9665	9.266	20.961	98.230	51.264
Stddev	.1649	117.7	.161	.1709	3.292	1.297	.625	.276
%RSD	1.6847	2.3079	.67100	1.7142	35.53	6.1868	.63661	.53828

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Sample Name: CRI Acquired: 6/29/2012 10:46:50 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	14.779	6.8118	38.375	495.69	54.215
Stddev	.382	1.2784	.142	20.29	3.521
%RSD	2.5879	18.768	.37091	4.0924	6.4948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10065.	7929.2	81673.	10009.
Stddev	17.	13.3	558.	203.
%RSD	.17144	.16767	.68264	2.0260

Sample Name: CRILL Acquired: 6/29/2012 10:50:32 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.2838	211.47	10.401	202.26	204.69	4.9338	5142.4	1.911
Stddev	.0915	11.34	1.176	.90	1.92	.1320	45.5	.160
%RSD	1.7316	5.3628	11.309	.44438	.93971	2.6762	.88407	8.364

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.4936	5.0950	25.947	107.26	5057.3	41.254	5287.9	15.320
Stddev	.1684	.2513	.899	1.21	62.0	1.065	44.2	.107
%RSD	2.5933	4.9329	3.4632	1.1244	1.2264	2.5821	.83542	.70042

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.8982	5100.6	38.571	3.2694	8.744	5.8752	98.591	51.270
Stddev	.0446	48.0	.396	.3996	1.534	1.1067	.424	.258
%RSD	.45068	.94090	1.0274	12.222	17.55	18.836	.42966	.50257

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Sample Name: CRILL Acquired: 6/29/2012 10:50:32 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	9.9317	8.2640	19.572	487.17	53.788
Stddev	.5795	1.6560	.091	7.10	1.172
%RSD	5.8348	20.038	.46578	1.4582	2.1793

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10062.	7940.8	81808.	10021.
Stddev	53.	52.0	345.	102.
%RSD	.52538	.65426	.42186	1.0162

Sample Name: ICSA Acquired: 6/29/2012 10:54:16 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.43803	527200.	.58708	.76389	.00588	-.35363	496940.
Stddev	.32119	4764.	1.0872	.60750	.18415	.05045	906.
%RSD	73.327	.90355	185.19	79.528	3129.5	14.267	.18226

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7732	-1.7203	3.0108	4.0544	196770.	-167.52	-22.300
Stddev	.0523	.1347	.2172	.3730	4808.	54.45	1.153
%RSD	6.766	7.8294	7.2125	9.2004	2.4436	32.505	5.1695

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	516130.	.74689	-1.2861	29.426	1.6161	3.2819	-9.795
Stddev	4912.	.06020	.1201	25.586	.2673	2.4216	.937
%RSD	.95178	8.0596	9.3388	86.949	16.541	73.788	9.561

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 6/29/2012 10:54:16 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6048	4.7661	-.70981	.05565	1.3875	5.4533	-25.861
Stddev	.6806	.2364	.13934	1.6150	2.0741	.1404	11.809
%RSD	14.781	4.9595	19.631	2902.3	149.48	2.5736	45.664

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	9.9629
Stddev	2.5985
%RSD	26.082

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8346.5	7264.4	73869.	9742.8
Stddev	35.3	34.1	342.	48.6
%RSD	.42318	.46992	.46273	.49914

Sample Name: ICSAB Acquired: 6/29/2012 10:58:12 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1056.7	505800.	957.03	509.39	505.03	480.55	474500.
Stddev	7.1	2817.	4.28	1.66	3.06	2.46	1524.
%RSD	.66872	.55696	.44708	.32583	.60518	.51140	.32125

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	961.4	466.28	470.88	507.74	189820.	10139.	495.56
Stddev	3.3	1.48	2.31	2.66	1733.	25.	1.66
%RSD	.3418	.31736	.49067	.52329	.91312	.24451	.33557

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	495800.	478.53	919.84	10369.	926.55	871.63	966.1
Stddev	2170.	2.23	3.38	42.	2.75	4.84	2.8
%RSD	.43758	.46538	.36723	.40694	.29688	.55472	.2945

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 6/29/2012 10:58:12 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	947.74	504.04	506.37	940.57	467.72	944.19	10343.
Stddev	4.82	1.33	3.38	1.89	4.45	3.02	74.
%RSD	.50812	.26417	.66755	.20058	.95056	.31977	.71923

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1434.9
Stddev	9.0
%RSD	.63006

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8327.7	7288.3	73909.	9708.2
Stddev	8.6	10.9	375.	43.5
%RSD	.10348	.15024	.50699	.44825

Sample Name: CCV Acquired: 6/29/2012 11:02:07 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1018.9	25946.	503.88	5081.9	1966.9	1996.5	51160.	498.4
Stddev	4.6	78.	1.15	15.1	3.5	3.7	93.	2.1
%RSD	.44812	.30128	.22740	.29760	.17587	.18350	.18195	.4261

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1974.9	1970.0	1995.1	26218.	50604.	4902.8	50774.	1981.7
Stddev	1.5	7.9	6.9	29.	108.	10.6	197.	20.0
%RSD	.07710	.40176	.34607	.11017	.21290	.21570	.38795	1.0082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1980.0	50738.	1970.7	485.63	497.5	505.78	5014.1	5056.2
Stddev	7.3	96.	1.0	2.59	2.8	1.99	1.3	27.2
%RSD	.37094	.18975	.05111	.53307	.5711	.39268	.02576	.53884

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 11:02:07 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1001.0	1970.9	1991.4	5310.2	4888.9
Stddev	.5	6.7	1.1	53.1	15.5
%RSD	.05170	.34110	.05318	1.0007	.31730

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9276.5	7704.0	79281.	9962.8
Stddev	6.8	17.6	370.	36.7
%RSD	.07337	.22895	.46657	.36883

Sample Name: CCB Acquired: 6/29/2012 11:06:02 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34851	-4.2098	.48937	13.775	.17468	.12289	9.3646	.1674
Stddev	.45217	4.7974	.68597	1.952	.08277	.03698	1.8727	.0350
%RSD	129.74	113.96	140.17	14.170	47.385	30.090	19.998	20.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32797	.22405	.93525	4.9430	-81.819	-6.5557	2.5787	.31753
Stddev	.10756	.25065	.64618	.5978	8.091	1.2839	11.804	.37547
%RSD	32.796	111.87	69.093	12.094	9.8895	19.584	457.76	118.25

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75949	-35.311	.39622	1.2123	1.030	1.0973	1.6030	1.2294
Stddev	.21096	4.003	.28394	.5877	1.277	.7392	.2925	.7478
%RSD	27.777	11.336	71.664	48.479	123.9	67.367	18.248	60.827

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 11:06:02 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2030	1.8262	.45410	-34.276	6.9674
Stddev	.4590	1.9134	.09392	3.132	2.5408
%RSD	38.156	104.78	20.683	9.1388	36.468

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10079.	7952.1	81564.	10027.
Stddev	21.	21.4	224.	17.
%RSD	.20979	.26946	.27519	.17208

Sample Name: As 5 ppm Acquired: 6/29/2012 11:09:51 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39668	6.6542	4937.1	3.4582	-.07673	.02816	.89632	-.2690
Stddev	.24377	21.232	20.4	.5619	.24704	.02697	6.3325	.2635
%RSD	61.454	319.08	.41318	16.248	321.97	95.793	706.50	97.97

Check ?	None	None	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10828	-.01229	1.1190	7.7312	-192.25	-14.868	21.120	.09248
Stddev	.24490	.03968	.7124	2.1349	73.92	2.596	17.377	.02254
%RSD	226.18	322.87	63.665	27.614	38.452	17.460	82.275	24.368

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03799	-116.43	-.11513	.24787	-.6591	.73527	-.27157	-.03690
Stddev	.10269	7.61	.12811	.64078	1.949	1.1724	.08882	.20258
%RSD	270.32	6.5343	111.27	258.51	295.7	159.46	32.705	548.94

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: As 5 ppm Acquired: 6/29/2012 11:09:51 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3116	.72071	.55627	-33.015	3.4188
Stddev	.1974	.80179	.02708	6.535	2.6286
%RSD	15.049	111.25	4.8675	19.793	76.886

Check ?	None	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10336.	8006.0	81377.	10133.
Stddev	58.	50.2	1693.	149.
%RSD	.56451	.62752	2.0799	1.4750

Sample Name: Ti 30 ppm Acquired: 6/29/2012 11:13:36 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17558	-4.2944	.84817	1.7939	-.14993	-.01447	-17.632	.1977
Stddev	.50524	20.797	1.1973	.3048	.35955	.03799	2.251	.1899
%RSD	287.75	484.27	141.16	16.988	239.81	262.46	12.768	96.05

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.8014	1.2353	4.1429	-.92576	-246.11	-17.833	-10.961	-.00663
Stddev	1.3509	.2416	.7769	1.7574	54.05	1.584	5.865	.03610
%RSD	48.221	19.558	18.753	189.83	21.962	8.8806	53.503	544.58

Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03005	-132.91	-.92118	-4.4721	-3.936	.25141	2.1305	29428.
Stddev	.27225	3.51	.21030	.1362	.343	1.6388	.2889	411.
%RSD	905.85	2.6442	22.829	3.0452	8.712	651.83	13.560	1.3975

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: Ti 30 ppm Acquired: 6/29/2012 11:13:36 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.02974	-.18610	-.13192	5838.9	6.2117
Stddev	.35275	2.6512	.11459	1169.9	1.3172
%RSD	1186.2	1424.6	86.868	20.036	21.205

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10164.	7914.2	81223.	9838.3
Stddev	74.	65.9	844.	18.1
%RSD	.72884	.83291	1.0394	.18406

Sample Name: Co 10 ppm Acquired: 6/29/2012 11:17:28 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29501	-4.8163	2.9417	.16671	-.21995	-.05535	-7.2641	.2100
Stddev	.55609	13.387	.3009	.37932	.15201	.01564	1.1680	.1776
%RSD	188.50	277.95	10.229	227.53	69.113	28.254	16.079	84.55

Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9768.9	-.25628	1.5362	5.8634	-252.26	-17.219	6.2557	-.05993
Stddev	63.3	.26718	.7459	.8107	5.17	1.003	10.923	.02729
%RSD	.64784	104.25	48.557	13.827	2.0503	5.8230	174.61	45.539

Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12305	-142.26	-.44515	.42591	.4754	1.2044	-.05111	8.6690
Stddev	.22503	10.67	.23896	.38031	1.496	2.0455	.12785	2.1537
%RSD	182.88	7.4978	53.681	89.293	314.7	169.83	250.17	24.844

Check ?	None	None	Chk Pass	None	Chk Pass	None	None	None
Value								
Range								

Sample Name: Co 10 ppm Acquired: 6/29/2012 11:17:28 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-4.5412	.60667	.86586	-10.954	4.2021
Stddev	.4363	1.1293	.08263	7.096	3.6661
%RSD	9.6065	186.15	9.5434	64.777	87.243

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10201.	7937.1	82503.	10108.
Stddev	94.	71.9	1066.	72.
%RSD	.91901	.90604	1.2924	.71622

Sample Name: Al 500 ppm Acquired: 6/29/2012 11:21:13 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09566	509660.	.00140	.32685	-.38303	-.12076	-14.540
Stddev	.10442	1838.	1.3947	.06814	.15581	.03444	3.337
%RSD	109.15	.36064	99840.	20.847	40.678	28.517	22.952

Check ?	None	None	Chk Pass	None	None	None	None
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2165	-.01347	-.13187	.11731	2.4340	-249.22	-16.769
Stddev	.0247	.11117	.07036	.76415	.1358	81.59	1.751
%RSD	11.41	825.47	53.354	651.42	5.5793	32.739	10.442

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-10.027	-.28681	-.54251	-116.76	.64927	2.9319	-.0057
Stddev	11.389	.02252	.20341	6.97	.37904	2.1695	1.200
%RSD	113.59	7.8528	37.494	5.9681	58.380	73.995	21220.

Check ?	None	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: Al 500 ppm Acquired: 6/29/2012 11:21:13 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5470	2.6589	.66088	-2.3961	1.8255	2.5646	-33.235
Stddev	2.9209	.5097	.14427	.3950	2.8964	.0383	10.218
%RSD	188.82	19.170	21.829	16.487	158.67	1.4923	30.745

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	5.1291
Stddev	2.5243
%RSD	49.215

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9810.3	8082.0	78163.	10334.
Stddev	35.8	15.8	1554.	35.
%RSD	.36441	.19529	1.9886	.33873

Sample Name: Fe 500 ppm Acquired: 6/29/2012 11:24:53 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.55930	59.192	-1.9879	-1.1959	-.40775	-.02579	-33.985
Stddev	.16843	34.926	.3435	.2855	.11477	.00972	1.358
%RSD	30.114	59.005	17.281	23.873	28.148	37.673	3.9964

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7370	1.8064	3.0390	.00037	489890.	-576.36	-19.470
Stddev	.1022	.1379	.1623	.14067	11720.	24.34	.756
%RSD	13.87	7.6350	5.3403	38086.	2.3923	4.2236	3.8830

Check ?	Chk Pass	None	None	Chk Pass	None	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-135.21	5.8728	-.98121	-152.03	-2.1328	.28896	-.6758
Stddev	13.16	.0433	.05193	6.74	1.3806	1.2631	1.705
%RSD	9.7326	.73691	5.2928	4.4306	64.733	437.12	252.2

Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: Fe 500 ppm Acquired: 6/29/2012 11:24:53 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.9754	1.8260	1.4267	5.1750	-2.1458	4.8652	-60.657
Stddev	2.8521	.1179	.0187	.6615	.7737	.1076	9.926
%RSD	71.745	6.4549	1.3119	12.784	36.056	2.2112	16.364

Check ?	None	None	None	None	Chk Pass	None	None
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	20.590
Stddev	2.360
%RSD	11.460

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9818.6	7907.3	79291.	9918.0
Stddev	114.5	82.8	177.	39.6
%RSD	1.1659	1.0474	.22310	.39892

Sample Name: V 5 ppm Acquired: 6/29/2012 11:28:45 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2991	.01785	1.0632	-1.1561	-.00522	-.20350	-17.219	.2313
Stddev	.3392	4.7182	.5949	.2521	.15789	.09203	2.821	.1676
%RSD	26.108	26434.	55.948	21.804	3022.0	45.222	16.381	72.45

Check ?	None	Chk Pass	None	None	None	Chk Pass	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.83203	-.63768	-1.1534	81.329	-347.99	-18.866	5.1059	.00413
Stddev	.25229	.21263	.4421	30.007	25.11	.960	7.9233	.04387
%RSD	30.322	33.345	38.335	36.896	7.2149	5.0862	155.18	1061.5

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.68705	-172.74	.24443	-.09225	-1.245	-.06884	-.20038	-.12892
Stddev	.22293	9.98	.28694	.46590	3.171	2.1978	.34889	.21905
%RSD	32.447	5.7761	117.39	505.03	254.7	3192.6	174.11	169.91

Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Sample Name: V 5 ppm Acquired: 6/29/2012 11:28:45 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-6.3241	4788.4	-.12368	-27.138	7.1072
Stddev	3.6679	250.6	.10973	3.496	3.5033
%RSD	57.998	5.2326	88.720	12.883	49.292

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10080.	7871.7	82821.	10399.
Stddev	156.	129.6	602.	459.
%RSD	1.5470	1.6458	.72638	4.4185

Sample Name: 240-12650-b-2-a@25 Acquired: 6/29/2012 11:32:32 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

NEM matrix

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.49655	5130.5	1.0554	.43511	58.561	.73769	1891.4	-.1413
Stddev	.39071	23.0	.7854	.12023	.509	.06161	7.7	.1042
%RSD	78.685	.44808	74.419	27.633	.86949	8.3518	.40948	73.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.4251	10.870	6.9260	25387.	-122.46	-10.096	1172.6	49.066
Stddev	.0199	.583	.9566	96.	31.43	2.021	5.5	2.104
%RSD	.23583	5.3672	13.812	.37731	25.666	20.020	.46895	4.2889

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15642	-92.628	10.721	6.5537	-3.090	.96846	.93970	16.476
Stddev	.04450	1.030	.226	.5856	.906	1.1685	.36768	.993
%RSD	28.451	1.1118	2.1112	8.9359	29.31	120.66	39.127	6.0262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12650-b-2-a@25 Acquired: 6/29/2012 11:32:32 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.20139	47.323	6.7436	62.086	19.642
Stddev	.18426	3.530	.0536	7.198	1.869
%RSD	91.494	7.4587	.79540	11.593	9.5162

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9999.4	8782.7	92088.	11229.
Stddev	35.5	40.5	2777.	48.
%RSD	.35551	.46093	3.0151	.42962

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.458%	110.84%	110.84%	112.56%
Range				

Sample Name: 240-12591-b-1-a@5 Acquired: 6/29/2012 11:36:18 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.85927	12194.	22.658	34.757	14782.	.83793	114970.
Stddev	.19693	215.	1.825	1.196	149.	.04327	575.
%RSD	22.918	1.7637	8.0559	3.4406	1.0063	5.1637	.50050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8299	14.645	53.400	113.73	35813.	2086.3	7.7932
Stddev	.1091	.439	1.668	3.16	702.	70.6	1.0683
%RSD	13.14	2.9993	3.1237	2.7824	1.9595	3.3857	13.708

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16775.	1130.2	6.7040	1336.0	38.232	163.08	-2.028
Stddev	325.	37.0	.1747	44.4	1.152	3.98	2.583
%RSD	1.9357	3.2716	2.6058	3.3211	3.0122	2.4430	127.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12591-b-1-a@5 Acquired: 6/29/2012 11:36:18 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.82364	3.2853	204.94	2.6652	34.415	238.04	1133.7
Stddev	.55619	.2320	6.86	1.0701	3.023	5.71	89.3
%RSD	67.528	7.0605	3.3481	40.150	8.7838	2.4001	7.8783

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	756.37
Stddev	19.88
%RSD	2.6278

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9667.0	7967.4	81019.	10396.
Stddev	200.1	166.1	2312.	94.
%RSD	2.0703	2.0849	2.8533	.90868

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.151%	100.55%	97.520%	104.21%
Range				

Sample Name: 240-12591-b-2-a@5 Acquired: 6/29/2012 11:40:19 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.77948	9797.7	14.135	14.602	2830.2	.38979	204910.
Stddev	.14140	28.1	.719	.365	17.1	.02017	2626.
%RSD	18.141	.28669	5.0848	2.5023	.60482	5.1754	1.2815

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.993	8.3006	106.17	36.336	29678.	913.07	-7.6065
Stddev	.131	.2927	2.86	2.571	170.	30.42	.4307
%RSD	6.565	3.5258	2.6921	7.0761	.57180	3.3318	5.6629

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101900.	1366.3	5.4853	189.40	27.601	43.329	-4.546
Stddev	503.	34.0	.1499	10.66	.385	.274	1.916
%RSD	.49350	2.4877	2.7322	5.6291	1.3935	.63181	42.16

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12591-b-2-a@5 Acquired: 6/29/2012 11:40:19 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7177	3.7707	167.90	2.7118	34.196	194.17	757.39
Stddev	1.7053	.4403	5.05	1.1248	.752	2.54	27.70
%RSD	99.279	11.677	3.0106	41.477	2.2005	1.3060	3.6577

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	299.50
Stddev	2.54
%RSD	.84917

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9259.7	7686.7	78868.	10022.
Stddev	101.4	74.0	1622.	85.
%RSD	1.0947	.96294	2.0566	.84459

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.100%	97.009%	94.932%	100.45%
Range				

Sample Name: 240-12507-k-6-a@10 Acquired: 6/29/2012 11:44:18 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05296	3.9159	.93593	160.50	523.51	-.15057
Stddev	.48055	26.777	.45048	.66	1.92	.04116
%RSD	907.41	683.81	48.132	.41148	.36640	27.336

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	182060.	.2719	.08810	1.0829	1.7944	740.59
Stddev	1763.	.1318	.27493	.1056	.1871	6.34
%RSD	.96849	48.47	312.08	9.7496	10.425	.85588

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5921.1	199.74	49048.	127.45	-.03120	F 1085700.
Stddev	131.6	.94	180.	1.17	.03718	50287.
%RSD	2.2218	.46904	.36728	.91952	119.16	4.6319

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12507-k-6-a@10 Acquired: 6/29/2012 11:44:18 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9045	-.00165	-3.005	-1.5114	.83152	-.21644
Stddev	.5101	.79368	2.253	1.0316	.09982	.13404
%RSD	26.785	48137.	74.96	68.256	12.004	61.927

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.9160	1.9631	2.5555	383.33	7655.3
Stddev	.5405	3.1534	.0537	14.03	26.4
%RSD	28.208	160.64	2.1011	3.6593	.34489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8325.5	7030.8	72649.	9641.7
Stddev	18.7	15.8	566.	38.2
%RSD	.22403	.22419	.77964	.39599

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.808%	88.731%	87.446%	96.645%
Range				

Sample Name: CCV Acquired: 6/29/2012 11:48:22 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	999.71	25584.	514.12	5149.0	1953.0	1959.5	50624.	507.7
Stddev	37.81	319.	7.61	63.9	18.3	22.3	481.	6.6
%RSD	3.7819	1.2472	1.4805	1.2414	.93900	1.1385	.95001	1.307

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1995.1	1938.4	1957.9	26048.	49938.	4822.2	49614.	1936.7
Stddev	27.3	70.3	74.7	231.	546.	58.6	548.	44.6
%RSD	1.3667	3.6278	3.8157	.88565	1.0929	1.2152	1.1048	2.3048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2016.7	49065.	1989.0	493.39	506.1	516.84	5040.2	4926.6
Stddev	25.3	605.	26.9	7.63	5.3	5.64	64.5	157.8
%RSD	1.2552	1.2335	1.3540	1.5469	1.044	1.0920	1.2791	3.2029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 11:48:22 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1003.8	1948.0	2002.6	5290.7	4791.3
Stddev	11.8	20.7	26.8	61.3	46.9
%RSD	1.1771	1.0604	1.3382	1.1577	.97981

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9196.3	7578.0	80255.	10031.
Stddev	121.6	99.1	1926.	106.
%RSD	1.3224	1.3071	2.3995	1.0587

Sample Name: CCB Acquired: 6/29/2012 11:52:18 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62359	-1.4598	.01871	12.469	.90473	.81488	43.808	.0881
Stddev	.41833	24.689	.87634	1.822	.52192	.33789	18.596	.0813
%RSD	67.084	1691.3	4684.1	14.610	57.688	41.466	42.449	92.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19086	.29121	-1.3047	13.957	-53.365	-5.9121	27.063	.37049
Stddev	.03455	.46255	2.2577	5.370	59.362	.4909	5.642	.11086
%RSD	18.103	158.84	173.05	38.477	111.24	8.3030	20.846	29.923

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31893	253.16	.23462	.96584	-2.446	-.10585	.94511	2.2562
Stddev	.11649	76.69	.16493	.74999	.826	.28819	.25350	.0850
%RSD	36.525	30.291	70.297	77.652	33.74	272.27	26.822	3.7690

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 11:52:18 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.14480	1.4983	.17984	-23.485	5.9523
Stddev	.17459	.4287	.09720	5.572	3.2597
%RSD	120.57	28.611	54.050	23.728	54.763

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10054.	7885.0	81295.	10190.
Stddev	29.	23.6	50.	38.
%RSD	.28952	.29869	.06146	.37493

Sample Name: mb 240-49005/1-a Acquired: 6/29/2012 11:56:07 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34505	-21.106	.18511	5.1424	.55736	-.01117	194.43
Stddev	.35565	19.597	.94071	.4944	.17734	.04014	2.77
%RSD	103.07	92.853	508.19	9.6148	31.819	359.39	1.4236

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1633	-.25366	.16668	-.18328	9.0798	-117.61	-9.2998
Stddev	.0498	.13536	.04798	.52023	.7752	59.89	1.9038
%RSD	30.49	53.364	28.787	283.85	8.5373	50.922	20.471

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.393	.43778	-.03657	53.012	.12068	.52142	-.5074
Stddev	11.718	.03135	.09506	12.355	.39570	.56870	2.411
%RSD	36.175	7.1607	259.96	23.307	327.90	109.07	475.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 240-49005/1-a Acquired: 6/29/2012 11:56:07 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1724	-.09847	.06009	1.4630	.09256	15.276	-32.242
Stddev	.3440	.43325	.08083	.4558	1.2558	.039	3.277
%RSD	29.338	439.96	134.51	31.151	1356.9	.25782	10.163

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	F 8.0203
Stddev	5.9621
%RSD	74.338

SiO₂

Check ?	Chk Fail
High Limit	5.0000
Low Limit	-1000.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10105.	7943.5	81841.	10326.
Stddev	21.	24.3	58.	33.
%RSD	.20970	.30633	.07069	.32302

Sample Name: lcs 240-49005/2-a Acquired: 6/29/2012 11:59:54 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.073	1966.8	1961.6	1009.7	1985.9	46.171	49506.	49.14
Stddev	.962	3.8	66.3	32.6	5.6	.182	159.	1.80
%RSD	1.8838	.19421	3.3825	3.2317	.28414	.39511	.32169	3.658

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	468.60	191.91	241.34	995.33	48899.	926.66	48394.	485.87
Stddev	15.60	.15	.74	3.07	195.	4.00	100.	.72
%RSD	3.3301	.07864	.30863	.30877	.39947	.43183	.20643	.14786

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	955.36	48817.	467.60	470.51	503.7	2024.6	1918.4	993.43
Stddev	31.73	189.	15.47	14.52	14.9	66.4	65.2	2.10
%RSD	3.3213	.38621	3.3086	3.0865	2.958	3.2809	3.3989	.21156

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Sample Name: lcs 240-49005/2-a Acquired: 6/29/2012 11:59:54 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1882.7	470.11	486.02	1026.1	934.12
Stddev	62.8	1.57	16.45	19.6	3.63
%RSD	3.3366	.33298	3.3848	1.9063	.38894

SiO₂

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9486.6	7657.0	79327.	10170.
Stddev	237.7	184.0	145.	24.
%RSD	2.5051	2.4029	.18292	.23185

Sample Name: 240-12432-q-1-a Acquired: 6/29/2012 12:03:33 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.50885	731.67	2.3631	51.474	64.861	-.05918	101650.
Stddev	.20077	18.74	1.2300	.926	.356	.02868	599.
%RSD	39.456	2.5609	52.053	1.7988	.54852	48.470	.58925

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3476	1.7230	1.7600	.15261	1093.9	1189.2	5.5965
Stddev	.0670	.1021	.1956	.61289	1.1	15.9	1.0177
%RSD	19.28	5.9255	11.111	401.61	.10077	1.3341	18.185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21807.	573.32	5.1375	21951.	5.4782	1.1111	.1646
Stddev	94.	1.71	.0267	101.	.2496	.3949	.5141
%RSD	.43245	.29855	.51967	.45800	4.5563	35.544	312.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12432-q-1-a Acquired: 6/29/2012 12:03:33 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28520	.76496	8.4590	2.0691	2.4869	7.0790	7971.4
Stddev	.88906	.38387	.2207	.5192	3.5860	.0383	24.9
%RSD	311.74	50.182	2.6094	25.093	144.19	.54047	.31201

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	209.74
Stddev	4.61
%RSD	2.1978

SiO₂

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9586.2	7624.6	79171.	10208.
Stddev	10.2	14.1	263.	35.
%RSD	.10610	.18502	.33174	.34097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.348%	96.226%	95.296%	102.32%
Range				

Sample Name: 240-12571-j-2-a Acquired: 6/29/2012 12:07:25 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24318	2365.6	-.06739	46.525	31.142	-.05538	91219.	.3682
Stddev	.45104	13.7	1.2820	.656	.230	.06636	619.	.1235
%RSD	185.47	.57999	1902.2	1.4096	.73788	119.81	.67806	33.54

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	<u>Fe2599</u>	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.61933	3.1532	.78560	1864.8	2432.8	19.897	30316.	28.075
Stddev	.12627	.0790	.82722	3.6	46.2	.912	52.	.081
%RSD	20.388	2.5056	105.30	.19209	1.8981	4.5838	.17181	.28999

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.96662	11428.	3.0146	.94954	-2.877	.24592	.25338	21.089
Stddev	.20266	63.	.2324	.59511	.892	2.1515	.28092	.242
%RSD	20.966	.55122	7.7099	62.673	30.99	874.89	110.87	1.1473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12571-j-2-a Acquired: 6/29/2012 12:07:25 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.7823	5.6736	19.465	10193.	233.27
Stddev	1.2636	2.8743	.086	13.	5.44
%RSD	70.895	50.661	.43961	.12311	2.3333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9620.7	7707.0	79492.	10165.
Stddev	12.6	10.4	170.	20.
%RSD	.13089	.13509	.21345	.19864

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.691%	97.265%	95.682%	101.89%
Range				

Sample Name: 240-12571-i-2-a Acquired: 6/29/2012 12:11:18 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04528	-7.5963	-7.75343	44.464	22.507	-.08614	93434.	.3296
Stddev	.44182	18.896	1.0839	.768	.311	.01501	739.	.0243
%RSD	975.65	248.75	143.86	1.7267	1.3833	17.421	.79137	7.370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04759	.53695	-1.3432	17.158	1587.7	23.949	30675.	13.774
Stddev	.14273	.05649	1.0645	.519	37.2	.218	239.	.048
%RSD	299.93	10.521	79.251	3.0238	2.3458	.90832	.77803	.34532

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.92756	11973.	1.0716	.24345	-2.915	.51278	-.28757	.02449
Stddev	.17492	84.	.2868	1.2831	4.760	.91261	.15026	.00987
%RSD	18.858	.70106	26.766	527.06	163.3	177.97	52.252	40.289

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12571-i-2-a Acquired: 6/29/2012 12:11:18 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4243	2.6064	1.7477	6906.7	238.41
Stddev	.1871	1.9344	.0580	49.8	4.62
%RSD	13.134	74.217	3.3172	.72089	1.9364

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9653.3	7703.4	79690.	10244.
Stddev	78.6	54.1	53.	56.
%RSD	.81442	.70166	.06652	.54969

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.015%	97.220%	95.921%	102.68%
Range				

Sample Name: 240-12571-j-4-a Acquired: 6/29/2012 12:15:12 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60376	2410.8	1.5142	46.270	31.560	.01487	91400.	.3369
Stddev	.29105	26.6	.8216	.345	.094	.04215	299.	.1802
%RSD	48.206	1.1031	54.261	.74508	.29902	283.50	.32703	53.48

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.58212	3.1031	2.4329	1908.8	2461.9	21.986	30636.	27.621
Stddev	.11031	.4303	1.2152	7.8	24.4	1.848	77.	.041
%RSD	18.950	13.867	49.948	.40728	.99300	8.4053	.25288	.14899

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.79611	11585.	3.2210	1.1618	-1.858	-.68173	.11794	21.902
Stddev	.16306	31.	.2609	1.6429	1.751	1.1625	.23077	.684
%RSD	20.482	.26672	8.0995	141.41	94.25	170.52	195.68	3.1216

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12571-j-4-a Acquired: 6/29/2012 12:15:12 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.74102	4.2860	17.835	10375.	236.23
Stddev	.64887	.4374	.114	40.	2.67
%RSD	87.564	10.205	.63859	.38932	1.1296

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9548.3	7676.9	80157.	10222.
Stddev	25.8	21.9	245.	26.
%RSD	.27024	.28468	.30514	.25308

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.972%	96.885%	96.483%	102.46%
Range				

Sample Name: 240-12571-i-4-a Acquired: 6/29/2012 12:19:05 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0019	8.1116	-4.3922	46.600	22.875	-1.0052	96315.	.2333
Stddev	.0516	29.441	.94048	.111	.357	.02193	748.	.1144
%RSD	5.1524	362.95	214.13	.23800	1.5589	21.812	.77653	49.02

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	<u>Fe2599</u>	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09946	.82778	-2.0239	11.956	1599.5	19.772	31347.	13.031
Stddev	.17720	.06520	1.3169	1.020	16.7	1.390	230.	.049
%RSD	178.17	7.8763	650.67	8.5317	1.0432	7.0298	.73452	.37260

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.84678	12359.	1.2333	-1.1445	-1.670	.55994	-.28905	-.23352
Stddev	.14652	95.	.1821	.6157	.870	1.2384	.41643	.04497
%RSD	17.304	.76844	14.762	53.793	52.08	221.17	144.07	19.257

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12571-i-4-a Acquired: 6/29/2012 12:19:05 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.74597	.69842	3.2330	7071.4	242.62
Stddev	.88510	2.9898	.0705	63.0	1.39
%RSD	118.65	428.08	2.1819	.89157	.57443

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9546.6	7619.4	80178.	10200.
Stddev	82.2	62.9	989.	70.
%RSD	.86094	.82587	1.2340	.68474

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.954%	96.160%	96.508%	102.24%
Range				

Sample Name: 240-12571-j-5-a Acquired: 6/29/2012 12:22:57 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28990	11.578	1.5472	268.36	98.753	-.09597	77644.	.4000
Stddev	.07995	7.848	.8619	.46	.870	.05682	654.	.0782
%RSD	27.579	67.788	55.710	.17262	.88141	59.208	.84169	19.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	<u>Fe2599</u>	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19539	.69013	-1.1397	356.79	7045.2	68.904	39811.	170.63
Stddev	.31592	.20054	1.0290	2.69	101.9	.912	353.	.86
%RSD	161.68	29.058	90.285	.75401	1.4462	1.3235	.88732	.50301

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19215	83973.	.57462	-.03753	-1.349	1.0180	-.02215	-.20754
Stddev	.23839	530.	.09158	.90962	1.878	.6585	.07080	.11817
%RSD	124.07	.63099	15.937	2424.0	139.2	64.686	319.67	56.941

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12571-j-5-a Acquired: 6/29/2012 12:22:57 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.8801	1.4363	2.5221	7044.2	834.95
Stddev	.6090	1.3812	.0494	76.4	3.85
%RSD	32.394	96.165	1.9587	1.0845	.46064

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9447.9	7564.9	78475.	10135.
Stddev	32.0	25.0	175.	47.
%RSD	.33900	.33112	.22274	.46663

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.973%	95.471%	94.459%	101.59%
Range				

Sample Name: 240-12571-i-5-a Acquired: 6/29/2012 12:26:41 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.30958	-25.226	1.0628	268.68	102.01	-.06962	79355.	.3616
Stddev	.23088	4.176	.3924	.76	1.05	.04573	834.	.1017
%RSD	74.580	16.555	36.922	.28291	1.0342	65.684	1.0515	28.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	<u>Fe2599</u>	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21323	.72195	-.38926	320.13	7199.2	72.163	40530.	169.33
Stddev	.18391	.12894	.88563	3.06	74.4	2.081	535.	.21
%RSD	86.253	17.859	227.51	.95716	1.0341	2.8834	1.3199	.12626

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08808	84392.	.51233	.09287	-1.139	-.93222	.08814	-.30760
Stddev	.14534	928.	.29097	.55992	1.146	2.1538	.25142	.11646
%RSD	165.02	1.1001	56.793	602.87	100.7	231.04	285.27	37.860

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12571-i-5-a Acquired: 6/29/2012 12:26:41 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4665	-.59806	10.570	7149.3	840.67
Stddev	.7275	2.5156	.113	77.2	7.68
%RSD	49.607	420.63	1.0732	1.0803	.91412

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9449.1	7582.2	78744.	10075.
Stddev	41.1	27.6	238.	65.
%RSD	.43448	.36421	.30186	.64603

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.985%	95.690%	94.782%	100.99%
Range				

Sample Name: mb 240-49010/1-a Acquired: 6/29/2012 12:30:25 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Tal-Al Sb TL + BLi SrO₂

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27725	-34.960	.15914	1.1776	.98173	-.05791	241.70	.0570
Stddev	.32062	20.621	.79776	.2044	.29056	.04824	2.57	.0790
%RSD	115.64	58.985	501.29	17.361	29.597	83.315	1.0619	138.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31858	.00078	-.60877	7.8622	-108.16	-6.9308	57.295	.60888
Stddev	.13148	.39045	.49835	.3251	13.86	1.6567	7.080	.01438
%RSD	41.270	49923.	81.863	4.1355	12.815	23.903	12.357	2.3616

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15959	20.689	-.29479	.27685	-1.778	.06807	-.08121	-.22841
Stddev	.15861	7.387	.39657	.77432	.115	1.7015	.24564	.12654
%RSD	99.387	35.705	134.52	279.68	6.459	2499.7	302.47	55.401

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-49010/1-a Acquired: 6/29/2012 12:30:25 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.90285	-.30631	18.286	-19.025	1.9667
Stddev	.31143	1.5868	.062	9.526	5.5928
%RSD	34.494	518.03	.33988	50.069	284.38

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9998.6	7840.0	80854.	10266.
Stddev	37.4	22.3	241.	33.
%RSD	.37444	.28488	.29769	.31713

Sample Name: CCV Acquired: 6/29/2012 12:34:15 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1039.5	25890.	509.44	5125.1	1990.4	1952.6	51029.	506.2
Stddev	2.4	145.	3.16	15.1	19.9	21.2	415.	2.1
%RSD	.22813	.55834	.62013	.29441	.99774	1.0849	.81232	.4065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1984.7	2006.4	2037.6	26471.	50471.	4824.9	49195.	1957.9
Stddev	6.6	6.6	5.6	206.	449.	50.3	520.	8.3
%RSD	.33099	.32745	.27316	.77845	.88867	1.0423	1.0565	.42457

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2013.9	50016.	1976.1	490.36	502.4	511.07	4997.8	5005.7
Stddev	6.7	438.	7.8	1.40	3.4	3.45	22.7	46.4
%RSD	.33265	.87618	.39417	.28540	.6671	.67427	.45475	.92773

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 12:34:15 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	998.32	1973.9	1981.9	5331.6	4802.2
Stddev	4.53	16.1	7.7	16.8	47.9
%RSD	.45344	.81690	.38972	.31453	.99658

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9137.0	7511.2	77854.	9900.4
Stddev	20.1	14.9	489.	65.7
%RSD	.22032	.19877	.62761	.66343

Sample Name: CCB Acquired: 6/29/2012 12:38:10 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.70728	-11.773	.76007	12.586	.53175	.43598	15.695	-.0059
Stddev	.43745	19.955	.24267	1.419	.14984	.04009	3.328	.0596
%RSD	61.849	169.49	31.928	11.272	28.179	9.1960	21.204	1018.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04959	.46459	-.92898	6.3116	-40.506	-1.1872	14.737	.32053
Stddev	.06561	.17737	1.5171	1.8910	30.805	1.4125	7.716	.08152
%RSD	132.31	38.178	163.31	29.961	76.052	118.98	52.359	25.432

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46823	-41.155	.25175	.54034	-2.590	2.1770	.62614	1.5295
Stddev	.15860	8.038	.39309	.29532	2.428	.4856	.33720	.1462
%RSD	33.872	19.530	156.14	54.654	93.75	22.306	53.855	9.5606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 12:38:10 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.64947	1.5779	.08090	-18.159	2.3225
Stddev	1.0336	4.4294	.04314	10.828	1.5044
%RSD	159.14	280.71	53.323	59.628	64.774

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9946.2	7776.6	80595.	10135.
Stddev	16.0	25.9	518.	29.
%RSD	.16052	.33354	.64259	.28325

Sample Name: lcs 240-49010/2-a Acquired: 6/29/2012 12:41:59 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal - Al Sb TL + BLiSiO₂

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.957	2040.0	2024.3	1049.3	2087.0	48.182	51368.	50.70
Stddev	.828	29.0	.8	2.1	1.3	.090	58.	.08
%RSD	1.5635	1.4213	.03836	.20236	.06243	.18625	.11222	.1624

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	483.45	198.72	251.21	1037.0	51162.	972.39	49980.	498.18
Stddev	1.02	.30	2.21	1.4	139.	1.50	142.	1.52
%RSD	.21188	.14856	.87780	.13130	.27095	.15405	.28323	.30431

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	993.83	50855.	483.70	485.69	522.6	2089.3	1979.6	1026.8
Stddev	1.31	177.	.85	1.21	2.4	3.6	3.8	3.2
%RSD	.13200	.34869	.17664	.24845	.4685	.17446	.18968	.31533

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: lcs 240-49010/2-a Acquired: 6/29/2012 12:41:59 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 ;
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1942.3	490.41	495.47	1058.4	965.56
Stddev	5.8	4.25	.67	13.9	3.12
%RSD	.29790	.86669	.13613	1.3091	.32352

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9414.6	7580.9	78762.	10137.
Stddev	14.2	14.8	200.	22.
%RSD	.15114	.19499	.25399	.22123

Sample Name: 240-12536-h-7-a Acquired: 6/29/2012 12:45:36 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal-Al Sb Ti + B Li SiO2

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22749	801.91	33.445	37.109	45.280	-.16349	128390.
Stddev	.33254	3.75	.427	.478	.128	.01498	322.
%RSD	146.18	.46806	1.2757	1.2878	.28173	9.1632	.25087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1114	.07731	2.6527	1.3515	132.18	33953.	-2.2211
Stddev	.1318	.12645	.3425	.7393	1.16	55.	1.9121
%RSD	118.4	163.57	12.912	54.702	.88083	.16134	86.090

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.494	3.0890	209.13	234580.	11.403	-.60539	2.336
Stddev	16.068	.0350	.41	944.	.332	.23322	1.453
%RSD	34.560	1.1317	.19824	.40241	2.9137	38.524	62.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12536-h-7-a Acquired: 6/29/2012 12:45:36 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3201	.40956	1.4709	2.4513	9.9519	4.9220	10647.
Stddev	2.1356	.15713	.2021	1.3312	2.2155	.0685	33.
%RSD	92.046	38.366	13.739	54.308	22.262	1.3924	.30845

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	669.41
Stddev	2.08
%RSD	.31028

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9238.4	7461.5	77643.	10207.
Stddev	6.2	11.7	170.	31.
%RSD	.06759	.15674	.21953	.30711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.889%	94.167%	93.457%	102.32%
Range				

Sample Name: SD 240-12536-h-7-a@5 Acquired: 6/29/2012 12:49:38 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00572	172.61	6.7286	9.0501	9.7175	-.02594	27071.	-.0191
Stddev	.27661	28.78	.8889	.2089	.4779	.04787	175.	.0840
%RSD	4833.5	16.674	13.210	2.3081	4.9174	184.54	.64656	438.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02953	.64133	-.31410	31.662	7007.6	-2.7553	1.1941	.70119
Stddev	.16868	.16525	.10376	.505	60.0	1.8221	10.886	.00779
%RSD	571.17	25.767	33.035	1.5950	.85571	66.129	911.63	1.1104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.405	49514.	2.3897	-.42278	-2.916	1.0126	.15929	.58065
Stddev	.101	254.	.1766	1.2388	1.489	.8959	.36952	.10475
%RSD	.23273	.51253	7.3905	293.03	51.04	88.470	231.98	18.040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-12536-h-7-a@5 Acquired: 6/29/2012 12:49:38 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.98154	2.8494	1.3261	2201.8	141.74
Stddev	.73955	3.0009	.0535	8.3	3.70
%RSD	75.346	105.31	4.0326	.37769	2.6102

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9775.1	7660.8	79871.	10129.
Stddev	9.5	9.3	1172.	60.
%RSD	.09697	.12121	1.4667	.59469

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.227%	96.682%	96.139%	101.53%
Range				

Sample Name: 240-12536-h-7-b ms Acquired: 6/29/2012 12:53:24 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal-Al Sb TL + B Li SiO₂

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55.326	2932.6	2131.2	1116.0	2183.7	49.109	174850.
Stddev	.424	24.9	23.2	10.9	2.8	.157	739.
%RSD	.76681	.84996	1.0877	.97440	.12919	.31895	.42275

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.74	499.92	203.07	265.89	1176.9	85708.	999.12
Stddev	.44	5.17	.61	.40	1.8	334.	3.53
%RSD	.8437	1.0345	.30021	.15159	.15200	.38996	.35291

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50009.	510.21	1214.7	276720.	506.05	485.12	537.1
Stddev	228.	.54	13.2	2213.	5.29	4.79	7.4
%RSD	.45622	.10601	1.0853	.79987	1.0456	.98836	1.373

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12536-h-7-b ms Acquired: 6/29/2012 12:53:24 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2062.2	2051.5	1056.8	1959.6	509.05	499.38	11632.
Stddev	23.7	18.4	1.1	18.3	2.38	4.99	25.
%RSD	1.1485	.89835	.10338	.93181	.46766	.99874	.21149

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1625.8
Stddev	12.0
%RSD	.73714

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8916.5	7350.7	75845.	10062.
Stddev	47.1	40.9	45.	97.
%RSD	.52775	.55648	.05889	.96198

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.687%	92.769%	91.292%	100.86%
Range				

Sample Name: 240-12536-h-7-c msd Acquired: 6/29/2012 12:57:19 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal-al 96R + B LiSiO2

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55.314	2869.2	2123.0	1118.1	2163.2	48.505	171980.
Stddev	.302	30.7	2.2	1.1	2.2	.015	924.
%RSD	.54543	1.0713	.10493	.09630	.09969	.03122	.53735

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.65	498.74	201.39	262.92	1161.9	85000.	995.51
Stddev	.09	.68	.67	.70	3.1	58.	2.02
%RSD	.1783	.13565	.33507	.26652	.26739	.06855	.20329

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49457.	505.52	1211.3	273430.	503.55	483.35	535.9
Stddev	98.	2.06	1.2	1878.	.90	.73	2.0
%RSD	.19825	.40748	.10281	.68676	.17878	.15024	.3690

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12536-h-7-c msd Acquired: 6/29/2012 12:57:19 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2064.1	2047.5	1046.6	1963.1	505.19	496.22	11537.
Stddev	1.9	.5	3.4	1.6	2.94	.32	15.
%RSD	.09111	.02588	.32074	.08150	.58178	.06516	.12626

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1604.3
Stddev	4.5
%RSD	.28264

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8905.9	7341.5	75877.	10045.
Stddev	11.7	12.5	211.	20.
%RSD	.13157	.16997	.27798	.20101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.582%	92.652%	91.331%	100.69%
Range				

Sample Name: 240-12473-g-1-a Acquired: 6/29/2012 13:01:14 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23252	-17.271	1.2611	12.057	54.258	-.06972	54851.	.3225
Stddev	.49285	10.090	.1550	.324	.108	.03982	148.	.1258
%RSD	211.96	58.423	12.286	2.6878	.19965	57.112	.27050	39.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08224	.67350	2.2286	5.4794	1174.0	-1.0718	30260.	1.1638
Stddev	.28509	.29750	.6631	1.0208	21.6	2.1177	65.	.0343
%RSD	346.65	44.173	29.751	18.631	1.8401	197.59	.21416	2.9464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0162	3146.9	2.2873	3.1526	-.5157	1.7872	.29437	.26738
Stddev	.1922	35.9	.3583	.4850	.6959	.8243	.33349	.04014
%RSD	18.917	1.1421	15.664	15.384	134.9	46.124	113.29	15.011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12473-g-1-a Acquired: 6/29/2012 13:01:14 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	<u>(In2306)</u>	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.4108	-.07184	410.71	4573.1	53.712
Stddev	.2866	.85099	1.44	1.4	6.455
%RSD	11.889	1184.6	.35102	.03105	12.017

SiO2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9639.3	7667.3	79546.	10211.
Stddev	24.2	8.5	195.	21.
%RSD	.25098	.11139	.24545	.20519

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.876%	96.764%	95.747%	102.36%
Range				

Sample Name: 240-12473-g-2-a Acquired: 6/29/2012 13:05:00 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.74774	-3.6434	.60352	13.161	160.55	-.04191	39805.	.2528
Stddev	.31797	15.849	1.5156	.167	.28	.04567	74.	.0766
%RSD	42.525	435.01	251.13	1.2699	.17588	108.96	.18646	30.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22957	.48767	2.3122	21.922	1231.4	1.8610	23884.	1.5469
Stddev	.18208	.31629	1.0171	2.106	43.2	.6626	120.	.0198
%RSD	79.314	64.858	43.989	9.6065	3.5106	35.607	.50342	1.2770

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.92027	3272.4	.73136	2.5374	-.7828	.54833	-.29638	-.12716
Stddev	.20715	9.4	.26995	1.0229	2.097	1.5108	.22867	.14122
%RSD	22.510	.28816	36.912	40.315	267.8	275.52	77.156	111.06

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12473-g-2-a Acquired: 6/29/2012 13:05:00 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2888	2.4435	246.60	4395.8	47.044
Stddev	.8517	2.3523	.86	16.5	3.409
%RSD	66.089	96.267	.34845	.37521	7.2468

SiO2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9762.7	7750.3	79846.	10291.
Stddev	31.8	24.9	119.	11.
%RSD	.32607	.32124	.14865	.10219

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.103%	97.812%	96.108%	103.15%
Range				

Sample Name: 240-12473-g-3-a Acquired: 6/29/2012 13:08:46 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47516	-12.798	1.1588	39.500	118.46	-.09284	71914.	.3932
Stddev	.27277	28.429	1.3239	.255	.18	.02725	94.	.1308
%RSD	57.405	222.13	114.24	.64472	.15267	29.352	.13042	33.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06793	.89473	.85901	1.1844	3283.1	-4.8384	39142.	.41410
Stddev	.23699	.18495	.71397	.9989	16.6	1.4426	52.	.02132
%RSD	348.86	20.671	83.116	84.335	.50621	29.816	.13197	5.1475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11088	7605.7	.80364	2.1753	-2.111	.23255	.22251	-.19155
Stddev	.21680	6.3	.22526	.2955	2.796	.26349	.17472	.12777
%RSD	195.53	.08308	28.029	13.584	132.4	113.31	78.523	66.703

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12473-g-3-a Acquired: 6/29/2012 13:08:46 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>(Zn2062)</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.5478	-.43290	7.7697	6257.7	107.17
Stddev	.4643	4.3130	.1395	20.0	3.94
%RSD	29.998	996.29	1.7953	.31950	3.6806

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Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9558.6	7651.7	79351.	10309.
Stddev	29.5	23.5	124.	50.
%RSD	.30845	.30669	.15674	.48159

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.074%	96.567%	95.513%	103.34%
Range				

Sample Name: 240-12473-g-4-a Acquired: 6/29/2012 13:12:31 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.74991	-8.9775	1.2279	38.546	115.88	-.03459	70534.	.3979
Stddev	.64178	21.987	1.8910	.238	.26	.02415	45.	.1362
%RSD	85.581	244.91	154.00	.61671	.22726	69.827	.06420	34.23

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06261	.72500	.57851	1.8901	3212.1	-3.7867	38278.	.13285
Stddev	.20579	.13522	.66583	2.5335	40.1	.7533	67.	.02964
%RSD	328.66	18.652	115.09	134.04	1.2492	19.893	.17425	22.311

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01277	7411.0	1.2416	1.7491	-.7288	-.26002	-.05567	-.16404
Stddev	.04303	24.4	.1997	1.4187	.4471	2.9527	.21949	.10237
%RSD	336.87	.32937	16.086	81.111	61.35	1135.6	394.24	62.404

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12473-g-4-a Acquired: 6/29/2012 13:12:31 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3061	1.3615	9.5406	6143.2	101.77
Stddev	.1314	3.3169	.0443	10.7	1.68
%RSD	10.062	243.63	.46470	.17483	1.6474

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Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9607.3	7690.4	79301.	10239.
Stddev	31.2	18.5	488.	46.
%RSD	.32459	.24048	.61495	.45275

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.558%	97.056%	95.453%	102.63%
Range				

Sample Name: 240-12477-i-1-a Acquired: 6/29/2012 13:16:16 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

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Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28933	-4.0737	1.3731	56.161	115.50	-.07022	114760.
Stddev	.20858	9.0176	.7064	.316	1.24	.00972	1512.
%RSD	72.091	221.36	51.442	.56315	1.0756	13.849	1.3176

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2413	1.6246	.72118	-.05053	1206.2	2114.3	-2.2214
Stddev	.1538	.1622	.17356	1.5727	10.3	67.0	1.4242
%RSD	63.72	9.9836	24.066	3112.2	.85293	3.1684	64.115

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41084.	188.05	3.6562	12333.	2.6431	.43976	-1.786
Stddev	349.	.39	.0394	94.	.0768	.65563	3.164
%RSD	.85055	.20839	1.0768	.76070	2.9045	149.09	177.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12477-i-1-a Acquired: 6/29/2012 13:16:16 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22596	-.11329	-.20432	1.5872	1.7366	3.8218	7866.8
Stddev	.46134	.25993	.11853	.1699	1.4266	.0090	62.1
%RSD	204.17	229.43	58.010	10.707	82.145	.23609	.78992

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	175.49
Stddev	3.78
%RSD	2.1556

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9431.0	7554.1	78485.	10181.
Stddev	15.1	8.1	163.	90.
%RSD	.16054	.10743	.20800	.88749

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.804%	95.336%	94.470%	102.05%
Range				

Sample Name: CCV Acquired: 6/29/2012 13:20:11 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1049.3	25748.	513.79	5187.7	1999.1	1963.2	50803.	506.2
Stddev	4.5	129.	1.52	3.4	8.7	9.3	200.	.4
%RSD	.43159	.50106	.29508	.06585	.43449	.47222	.39425	.0699

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1996.4	2007.1	2053.7	26325.	50425.	4832.6	49256.	1974.1
Stddev	2.4	7.8	6.7	92.	254.	23.3	305.	29.8
%RSD	.11888	.38623	.32743	.34950	.50418	.48123	.61915	1.5072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2023.2	49846.	1989.7	491.56	502.6	518.52	5042.3	5099.0
Stddev	1.3	245.	3.4	1.07	1.7	2.80	12.6	28.4
%RSD	.06565	.49132	.17114	.21807	.3470	.54082	.24910	.55702

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 13:20:11 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1005.6	1969.0	1992.4	5287.8	4812.7
Stddev	1.6	9.0	4.4	76.8	29.1
%RSD	.16359	.45747	.22279	1.4517	.60546

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9070.2	7473.7	77281.	9990.1
Stddev	25.4	23.1	458.	87.0
%RSD	.28025	.30868	.59288	.87041

Sample Name: CCB Acquired: 6/29/2012 13:24:06 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37718	-12.963	.35981	12.849	.70727	.37671	14.941	.1544
Stddev	.39954	12.042	.56030	1.631	.07778	.12977	5.858	.1081
%RSD	105.93	92.892	155.72	12.690	10.998	34.448	39.211	70.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16461	.12758	-.49575	6.9594	19.280	1.1157	11.704	.21082
Stddev	.33743	.16157	.76868	1.4958	36.438	1.8691	4.711	.00983
%RSD	204.99	126.64	155.05	21.493	188.99	167.53	40.253	4.6633

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.52937	-46.341	.11251	.09018	-1.884	.89308	.51941	1.4813
Stddev	.20122	5.484	.16458	1.0288	2.238	2.4914	.25450	.2399
%RSD	38.011	11.835	146.28	1140.8	118.8	278.97	48.997	16.192

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 13:24:06 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.22904	.64483	.19159	-23.013	3.4713
Stddev	.18998	2.0071	.14949	6.734	6.5993
%RSD	82.946	311.26	78.026	29.263	190.11

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9838.7	7715.8	79641.	9971.0
Stddev	7.5	4.8	171.	25.6
%RSD	.07612	.06233	.21455	.25683

Sample Name: 240-12477-i-2-a Acquired: 6/29/2012 13:27:55 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

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Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37027	-4.4227	-.13679	6.1405	7.1433	-.01393	641.22	.0671
Stddev	.44001	7.7760	1.1663	.1766	.2064	.03641	1.52	.1478
%RSD	118.83	175.82	852.60	2.8760	2.8888	261.45	.23695	220.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26930	.46008	.67512	23.370	-42.432	-4.3482	26.207	2.1558
Stddev	.10924	.16353	.68317	.741	38.133	1.5513	10.330	.0209
%RSD	40.565	35.543	101.19	3.1696	89.867	35.677	39.418	.96994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08214	21.956	1.7100	.12017	-1.690	.41718	-.02941	-.07384
Stddev	.11341	4.066	.1834	.22823	2.417	1.2287	.16138	.04065
%RSD	138.07	18.517	10.726	189.92	143.0	294.52	548.73	55.043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12477-i-2-a Acquired: 6/29/2012 13:27:55 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.67937	2.3324	17.070	-9.7810	6.1408
Stddev	.19066	3.3419	.116	5.2683	4.5442
%RSD	28.065	143.29	.67703	53.862	74.001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9843.2	7710.6	80011.	10210.
Stddev	18.9	30.7	169.	49.
%RSD	.19228	.39765	.21104	.47602

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.905%	97.311%	96.307%	102.34%
Range				

Sample Name: 240-12477-i-3-a Acquired: 6/29/2012 13:31:42 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *Tal-Al Sb Tr*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28269	50.112	1.8297	45.345	188.74	-.08858	109070.
Stddev	.32113	11.414	1.1978	.382	.57	.03566	773.
%RSD	113.60	22.777	65.464	.84248	.30269	40.262	.70880

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2742	.97087	1.2841	-.07015	818.66	2766.0	-1.2620
Stddev	.1009	.27416	.1392	.90979	4.78	26.4	.6383
%RSD	36.80	28.239	10.837	1296.9	.58431	.95325	50.582

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35035.	298.47	4.0143	8978.3	2.8825	.10318	-2.200
Stddev	50.	1.72	.0806	16.7	.1896	1.2078	1.540
%RSD	.14406	.57666	2.0078	.18544	6.5786	1170.6	70.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12477-i-3-a Acquired: 6/29/2012 13:31:42 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-27089	-.31160	.56002	1.9251	1.3372	1.6410	8153.0
Stddev	1.9122	.20581	.07881	.2270	1.0632	.0140	16.1
%RSD	705.89	66.048	14.072	11.793	79.513	.85362	.19708

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	156.56
Stddev	.63
%RSD	.40310

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9318.9	7457.3	77555.	10033.
Stddev	29.1	29.1	207.	50.
%RSD	.31232	.39061	.26732	.50176

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.689%	94.113%	93.351%	100.57%
Range				

Sample Name: 240-12477-i-4-a Acquired: 6/29/2012 13:35:35 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal - Al SbtL

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.49283	55.375	1.4752	43.605	188.80	-.10927	107760.
Stddev	.57558	12.153	.4141	.563	.22	.02776	669.
%RSD	116.79	21.947	28.071	1.2912	.11716	25.407	.62095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4249	1.0284	1.4146	.73627	842.80	2822.7	1.7910
Stddev	.1258	.1343	.4426	.53043	.59	99.7	1.1375
%RSD	29.61	13.057	31.285	72.043	.06983	3.5316	63.514

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34633.	299.26	3.8836	8918.9	2.9230	.71654	-2.506
Stddev	181.	.15	.0600	21.9	.1643	1.1306	.533
%RSD	.52327	.04914	1.5454	.24553	5.6206	157.78	21.25

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12477-i-4-a Acquired: 6/29/2012 13:35:35 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.51129	.28561	.65871	2.4613	1.9902	2.1318	8106.4
Stddev	2.2533	.24700	.09612	.4724	2.4157	.0235	11.5
%RSD	440.70	86.481	14.593	19.192	121.38	1.1026	.14230

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	157.18
Stddev	3.15
%RSD	2.0060

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9364.5	7495.1	77699.	9994.1
Stddev	35.2	37.1	249.	14.7
%RSD	.37635	.49486	.32016	.14741

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.143%	94.591%	93.525%	100.18%
Range				

Sample Name: 240-12511-i-1-a Acquired: 6/29/2012 13:39:27 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal - Al Sb TL

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29957	9.3948	1.0596	40.416	209.43	-.07386	115020.
Stddev	.33449	14.977	.8509	.132	1.32	.02884	1921.
%RSD	111.65	159.42	80.299	.32703	.63057	39.054	1.6703

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3910	.09773	1.3211	-.56622	2435.1	2181.2	-.88940
Stddev	.0193	.09058	.0428	.33157	20.7	11.5	.59894
%RSD	4.944	92.685	3.2402	58.559	.85166	.52816	67.343

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40550.	189.97	6.9693	12921.	1.5099	-.00835	-3.109
Stddev	245.	2.03	.1950	59.	.2184	.83435	1.563
%RSD	.60432	1.0689	2.7972	.45597	14.464	9993.6	50.27

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12511-i-1-a Acquired: 6/29/2012 13:39:27 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00475	-.09632	.39912	1.5088	.73261	1.3322	7056.7
Stddev	2.5762	.10706	.08973	.5956	2.3527	.0625	17.7
%RSD	54256.	111.15	22.483	39.474	321.13	4.6900	.25077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	373.37
Stddev	3.64
%RSD	.97489

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9347.1	7468.5	77822.	10020.
Stddev	8.5	11.6	704.	100.
%RSD	.09043	.15499	.90487	.99994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.970%	94.255%	93.672%	100.44%
Range				

Sample Name: 240-12511-i-3-a Acquired: 6/29/2012 13:43:20 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment: *Tall - Al Sb R*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47068	179.63	.99182	43.480	231.21	-.10490	127680.
Stddev	.37796	7.93	.62208	.311	.84	.02141	382.
%RSD	80.302	4.4158	62.721	.71566	.36468	20.410	.29948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3216	2.2434	3.8880	1.6483	450.10	2413.0	-1.4577
Stddev	.0333	.2366	.1619	1.2211	.90	32.6	.7979
%RSD	10.34	10.545	4.1637	74.082	.20101	1.3524	54.738

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41982.	1079.8	5.5738	19425.	5.4440	.11016	-4.152
Stddev	29.	2.2	.1288	20.	.3575	.62475	2.229
%RSD	.06997	.20346	2.3110	.10181	6.5674	567.11	53.70

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12511-i-3-a Acquired: 6/29/2012 13:43:20 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.88285	-.22373	3.2562	2.6688	.85417	3.1291	8751.4
Stddev	1.3937	.16401	.1385	1.1309	1.1949	.0273	10.4
%RSD	157.86	73.305	4.2535	42.374	139.89	.87311	.11854

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	173.19
Stddev	1.90
%RSD	1.0989

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9267.7	7429.2	77356.	10119.
Stddev	5.8	5.2	439.	37.
%RSD	.06249	.07048	.56746	.36342

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.180%	93.759%	93.111%	101.42%
Range				

Sample Name: 240-12511-i-4-a Acquired: 6/29/2012 13:47:12 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal-Al Sb Tr

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39555	45.503	1.1503	42.978	227.37	-.06330	127380.
Stddev	.25809	13.001	.5944	.118	.92	.03572	1253.
%RSD	65.249	28.571	51.676	.27362	.40268	56.424	.98354

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4459	2.0764	2.0430	.76075	203.82	2384.5	3.9819
Stddev	.1152	.1750	.2290	.81699	.90	18.4	1.1122
%RSD	25.83	8.4262	11.210	107.39	.44391	.77103	27.930

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41855.	1074.8	5.5085	19188.	4.2639	.24947	-3.617
Stddev	137.	8.6	.0962	81.	.3645	.11789	.482
%RSD	.32717	.80030	1.7460	.42204	8.5493	47.255	13.32

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12511-i-4-a Acquired: 6/29/2012 13:47:12 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5489	-.08865	.65790	3.3944	2.5176	1.6548	8456.2
Stddev	.7844	.36309	.17498	.5946	1.3042	.0552	47.6
%RSD	50.646	409.59	26.597	17.516	51.803	3.3337	.56305

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	176.18
Stddev	7.44
%RSD	4.2207

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9234.1	7416.7	76784.	9993.9
Stddev	10.4	11.1	409.	39.3
%RSD	.11295	.14950	.53322	.39309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.846%	93.601%	92.423%	100.18%
Range				

Sample Name: 240-12529-h-1-a Acquired: 6/29/2012 13:51:05 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36401	-29.743	.48025	7.7370	77.091	-.04085	45944.	.1950
Stddev	.51297	29.018	1.1486	.1683	.269	.03174	46.	.1905
%RSD	140.92	97.562	239.16	2.1746	.34925	77.682	.10070	97.65

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05680	.62514	.02182	.12063	875.63	.69906	23816.	.84600
Stddev	.22915	.31070	1.1166	1.6189	103.66	1.3118	68.	.03192
%RSD	403.43	49.700	5116.5	1342.1	11.839	187.66	.28495	3.7736

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11237	4980.8	1.4115	1.0031	-2.460	-.08152	-.66715	-.28358
Stddev	.12817	10.8	.1548	1.2744	1.392	.94446	.52207	.20378
%RSD	114.06	.21776	10.969	127.05	56.57	1158.6	78.254	71.859

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12529-h-1-a Acquired: 6/29/2012 13:51:05 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>(Zn2062)</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.74989	2.6022	6.4311	5198.5	45.961
Stddev	.82549	1.4762	.0951	10.1	1.263
%RSD	110.08	56.728	1.4792	.19372	2.7470

SiO₂

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9475.0	7514.4	77557.	9960.4
Stddev	5.2	4.2	71.	1.6
%RSD	.05537	.05628	.09217	.01648

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.242%	94.834%	93.354%	99.839%
Range				

Sample Name: 240-12529-g-3-a Acquired: 6/29/2012 13:54:50 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62565	4.6830	-.14889	.19293	2.9609	.00830	1046.4	-.0271
Stddev	.52189	11.551	1.7722	.23402	.0933	.02349	5.1	.0699
%RSD	83.416	246.65	1190.3	121.30	3.1514	283.11	.48502	258.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06781	.55820	-1.4981	1.6352	-75.956	1.9905	64.622	.25010
Stddev	.09344	.08765	.4105	1.5976	26.981	1.9945	13.290	.05669
%RSD	137.81	15.701	27.403	97.700	35.522	100.20	20.565	22.668

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10391	-41.879	.37213	.71938	-1.761	-.44428	-.07794	-.29104
Stddev	.11865	7.741	.06522	.71410	3.287	1.5176	.10964	.22278
%RSD	114.19	18.484	17.526	99.266	186.7	341.58	140.67	76.545

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12529-g-3-a Acquired: 6/29/2012 13:54:50 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	TI1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.98702	-.37204	5.1616	2.4921	-3.8724
Stddev	.24719	.52430	.0362	1.9589	3.7948
%RSD	25.044	140.93	.70049	78.605	97.995

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Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9697.7	7574.9	78688.	10099.
Stddev	35.8	39.7	298.	37.
%RSD	.36965	.52404	.37859	.36948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.457%	95.598%	94.715%	101.23%
Range				

Sample Name: 240-12529-h-4-a Acquired: 6/29/2012 13:58:37 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B1826	Ba4554	Be3130	Ca8179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37305	-24.976	.50444	10.221	92.079	-.08595	79551.	.3653
Stddev	.79002	18.032	.36544	.123	.102	.01875	105.	.3206
%RSD	211.77	72.200	72.445	1.2071	.11023	21.816	.13208	87.76

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09607	1.1541	4.8855	3.3298	2081.4	1.9779	42035.	1.1277
Stddev	.23904	.2391	.6360	1.2509	41.7	2.5019	46.	.0102
%RSD	248.82	20.716	13.019	37.567	2.0016	126.49	.11033	.90434

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34503	8823.2	1.6289	3.2202	-2.813	.20794	-.24789	-.26159
Stddev	.05813	12.9	.3295	.7677	1.469	2.3491	.36900	.33885
%RSD	16.848	.14639	20.226	23.840	52.24	1129.7	148.86	129.54

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12529-h-4-a Acquired: 6/29/2012 13:58:37 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.91361	1.1837	51.628	5924.1	62.806
Stddev	.70264	5.6778	.169	3.2	2.638
%RSD	76.907	479.67	.32771	.05391	4.2008

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Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9212.4	7348.2	76329.	9889.8
Stddev	19.6	12.8	375.	8.7
%RSD	.21278	.17411	.49084	.08788

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.630%	92.737%	91.876%	99.132%
Range				

Sample Name: 240-12536-c-4-b Acquired: 6/29/2012 14:02:24 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.76199	695.44	5.2513	283.29	100.63	-.15827	352850.
Stddev	.29145	23.34	2.7677	.61	.41	.04893	2383.
%RSD	38.249	3.3567	52.706	.21469	.41109	30.916	.67546

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6730	.58891	2.4776	2.0944	34667.	13024.	19.786
Stddev	.1120	.17394	.0978	1.4056	5.	11.	.345
%RSD	16.64	29.536	3.9491	67.114	.01327	.08689	1.7459

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	153590.	4030.7	58.281	169600.	3.9051	.18152	-4.668
Stddev	364.	5.2	.382	1084.	.2641	.60608	1.957
%RSD	.23686	.12838	.65595	.63889	6.7622	333.90	41.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12536-c-4-b Acquired: 6/29/2012 14:02:24 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.28379	.60368	6.5376	6.9600	2.5407	20.523	6305.7
Stddev	2.2063	.29018	.7305	.5218	1.0145	.098	30.6
%RSD	777.44	48.067	11.173	7.4977	39.931	.47566	.48482

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1328.6
Stddev	6.8
%RSD	.51189

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8379.8	6946.7	72623.	9706.9
Stddev	14.7	14.0	144.	35.1
%RSD	.17596	.20207	.19796	.36187

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.348%	87.670%	87.414%	97.298%
Range				

Sample Name: CCV Acquired: 6/29/2012 14:06:35 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1037.9	25869.	516.97	5162.0	1999.7	1935.4	50855.	515.1
Stddev	2.4	72.	4.37	29.8	5.3	9.2	111.	3.5
%RSD	.23225	.27672	.84546	.57636	.26494	.47773	.21745	.6876

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1991.6	1998.6	2033.5	26240.	50819.	4847.1	48330.	1961.6
Stddev	11.9	8.1	6.4	43.	194.	17.9	266.	13.0
%RSD	.59799	.40542	.31369	.16248	.38108	.36934	.55022	.66345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2041.0	50540.	1984.3	496.43	513.0	518.50	4997.8	4992.8
Stddev	11.4	168.	11.4	2.39	.8	2.95	26.9	13.0
%RSD	.55931	.33192	.57443	.48076	.1648	.56867	.53779	.25975

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 14:06:35 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	999.79	1970.5	1980.7	5374.3	4778.8
Stddev	5.09	5.9	11.6	51.5	16.2
%RSD	.50905	.29715	.58475	.95753	.33839

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8675.0	7071.7	74344.	9546.3
Stddev	43.0	36.3	352.	33.2
%RSD	.49600	.51379	.47368	.34829

Sample Name: CCB Acquired: 6/29/2012 14:10:31 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23241	18.310	-.58802	12.931	1.0671	.27465	12.654	.0077
Stddev	.63401	19.306	.14771	1.892	.1003	.08523	5.968	.1321
%RSD	272.80	105.44	25.119	14.632	9.3979	31.033	47.158	1709.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05702	.54245	-.90624	3.2949	56.726	12.585	.09992	.20403
Stddev	.16615	.15091	.44246	1.0715	6.942	2.164	5.5359	.03511
%RSD	291.37	27.819	48.824	32.521	12.238	17.196	5540.4	17.206

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24209	-14.940	.21320	-.38177	-.2497	2.0997	.32235	1.1662
Stddev	.13871	7.914	.27707	1.0622	.3551	.8752	.43128	.3324
%RSD	57.297	52.971	129.95	278.24	142.2	41.683	133.79	28.506

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 14:10:31 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.24466	-.28473	.12212	-27.564	1.9590
Stddev	1.0001	1.5335	.07462	8.345	3.0384
%RSD	408.78	538.57	61.101	30.274	155.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9348.2	7248.4	75494.	9567.3
Stddev	39.5	26.3	256.	43.6
%RSD	.42210	.36252	.33862	.45583

Sample Name: 240-12536-c-5-a Acquired: 6/29/2012 14:14:20 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	<u>Ba4554</u>	Be3130	<u>Ca3179</u>
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22738	10.101	10.306	51.115	45.658	-.00832	96080.
Stddev	.18710	20.155	1.520	.667	.305	.04314	205.
%RSD	82.284	199.53	14.744	1.3051	.66833	518.55	.21337

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	<u>Fe2599</u>	<u>K_7664</u>	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0611	1.2303	1.0763	-.29963	2031.6	10048.	10.411
Stddev	.0751	.2400	.2265	.51251	5.3	82.	1.472
%RSD	122.9	19.506	21.046	171.05	.26298	.81831	14.139

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	<u>Mg2790</u>	Mn2576	Mo2020	<u>Na5895</u>	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5683.0	1517.1	330.41	205880.	11.327	.33179	-1.555
Stddev	40.2	8.5	2.69	2586.	.315	.69859	1.533
%RSD	.70734	.55846	.81378	1.2559	2.7806	210.55	98.58

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12536-c-5-a Acquired: 6/29/2012 14:14:20 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40385	.28735	.28172	3.2750	2.4020	2.9278	3323.0
Stddev	.57603	.21999	.20935	.4317	3.6724	.0362	18.1
%RSD	142.63	76.558	74.312	13.183	152.89	1.2357	.54382

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	326.17
Stddev	4.17
%RSD	1.2772

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8762.3	7015.3	72894.	9564.4
Stddev	32.4	35.0	396.	22.0
%RSD	.36937	.49953	.54301	.23033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.153%	88.536%	87.740%	95.869%
Range				

Sample Name: 240-12536-c-6-a Acquired: 6/29/2012 14:18:29 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	<u>Ba4554</u>	Be3130	<u>Ca3179</u>
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4515	31.602	17.461	72.715	333.31	.00818	164500.
Stddev	.4719	8.322	1.040	.256	1.35	.11549	1992.
%RSD	32.511	26.333	5.9542	.35197	.40493	1411.0	1.2109

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	<u>Fe2599</u>	<u>K_7664</u>	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3560	-.24724	2.0337	.41437	104010.	4449.4	83.053
Stddev	.0920	.48057	.0188	1.0128	378.	61.7	1.909
%RSD	25.83	194.37	.92306	244.43	.36375	1.3856	2.2989

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	<u>Mg2790</u>	Mn2576	Mo2020	<u>Na5895</u>	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62277.	6945.4	8.3420	97997.	1.7268	.87193	-3.320
Stddev	381.	31.5	.1756	540.	.3001	.23521	1.824
%RSD	.61189	.45291	2.1050	.55127	17.377	26.976	54.96

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12536-c-6-a Acquired: 6/29/2012 14:18:29 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.66691	.44267	.27156	9.0387	.32762	3.8997	9471.8
Stddev	1.6714	.53049	.10388	.8607	.20304	.0817	28.3
%RSD	250.62	119.84	38.254	9.5223	61.974	2.0953	.29903

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	789.01
Stddev	4.29
%RSD	.54393

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8636.5	7040.2	73224.	9604.9
Stddev	18.8	25.8	413.	48.7
%RSD	.21791	.36647	.56384	.50731

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.902%	88.850%	88.138%	96.276%
Range				

Sample Name: 240-12536-c-8-a Acquired: 6/29/2012 14:22:30 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05984	-1.7261	4.4134	38.322	128.29	-.26104	326940.
Stddev	.57520	14.503	.7077	.229	.51	.03660	2987.
%RSD	961.27	840.21	16.035	.59726	.39449	14.019	.91354

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0474	.35799	.78816	1.0901	30.606	31016.	52.084
Stddev	.1161	.06470	.12634	1.2073	5.486	145.	1.334
%RSD	244.8	18.073	16.030	110.75	17.924	.46818	2.5604

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.961	1.9312	134.34	230410.	13.583	-.90444	-5.814
Stddev	12.601	.0913	.72	7071.	.474	.31326	2.422
%RSD	35.041	4.7279	.53527	3.0687	3.4897	34.635	41.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12536-c-8-a Acquired: 6/29/2012 14:22:30 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.96028	.00841	-.50709	2.5822	2.2006	1.7072	950.14
Stddev	2.6833	.25602	.05857	.2253	1.3200	.0398	10.75
%RSD	279.43	3044.4	11.550	8.7270	59.982	2.3304	1.1317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	794.48
Stddev	4.60
%RSD	.57841

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8483.5	6863.9	72082.	9552.0
Stddev	27.8	13.1	114.	31.6
%RSD	.32821	.19053	.15783	.33040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.381%	86.625%	86.764%	95.745%
Range				

Sample Name: 240-12536-c-9-a Acquired: 6/29/2012 14:26:33 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-47115	1044.7	17.221	17.620	30.844	-12269	165240.
Stddev	.34026	12.1	1.041	.776	.374	.01924	1938.
%RSD	72.219	1.1590	6.0440	4.4036	1.2139	15.682	1.1727

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0462	.08137	.42513	-.34094	14.622	29173.	11.257
Stddev	.1440	.15111	.33100	1.7152	.717	72.	3.269
%RSD	311.4	185.71	77.860	503.07	4.9035	.24752	29.039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.955	.26779	151.00	216610.	6.3206	-41945	-.9594
Stddev	7.046	.02766	1.16	1549.	.2218	.33996	2.786
%RSD	58.939	10.329	.77117	.71497	3.5091	81.050	290.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12536-c-9-a Acquired: 6/29/2012 14:26:33 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5154	-.28401	-.23030	1.9845	3.9988	2.2235	4141.3
Stddev	1.2149	.10296	.15288	.0585	1.6132	.0199	7.5
%RSD	80.175	36.251	66.383	2.9481	40.341	.89539	.18189

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	711.83
Stddev	2.78
%RSD	.39058

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8606.4	6896.6	72337.	9619.2
Stddev	100.4	85.5	271.	103.2
%RSD	1.1664	1.2398	.37464	1.0725

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.603%	87.038%	87.070%	96.419%
Range				

Sample Name: mb 240-49166/1-a Acquired: 6/29/2012 14:30:37 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000 *ngm 7-2-12*
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *Tal-Al Sb Ti + B Li Si O2*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41322	-2.4552	.04748	1.5265	2.2246	-.05558	291.90
Stddev	.36579	11.071	1.0844	.2034	.1361	.05134	10.29
%RSD	88.523	450.92	2284.0	13.322	6.1174	92.376	3.5251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1191	.01961	.15273	-.95287	8.9317	42.012	11.709
Stddev	.0896	.12110	.05243	.84649	.7819	67.339	1.286
%RSD	75.17	617.56	34.332	88.837	8.7543	160.29	10.984

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.048	.33766	.09948	158.62	-.02106	-.45995	-3.826
Stddev	12.084	.01474	.18016	26.01	.31228	1.3691	.221
%RSD	26.241	4.3667	181.09	16.400	1482.5	297.66	5.765

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 240-49166/1-a Acquired: 6/29/2012 14:30:37 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01207	-.26050	-.25395	.97135	1.0730	F 23.390	-34.365
Stddev	1.1491	.26036	.23437	.63254	2.2480	.147	9.174
%RSD	9520.6	99.947	92.291	65.120	209.49	.62715	26.696

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						20.000	
Low Limit						-1000.0	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1.9046
Stddev	2.0352
%RSD	106.86

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9394.4	7294.9	76067.	9752.2
Stddev	18.5	11.1	210.	27.9
%RSD	.19722	.15194	.27638	.28568

Sample Name: lcs 240-49166/2-a Acquired: 6/29/2012 14:34:24 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

Tal Al Sb Tl + Bi Li Si O2
nm 7-2-12

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.053	2063.1	2068.0	1062.2	2136.7	47.126	50697.	52.77
Stddev	.064	48.2	13.2	4.8	22.9	.603	523.	.41
%RSD	.11932	2.3361	.63811	.44772	1.0710	1.2789	1.0314	.7712

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	492.41	204.01	258.33	1047.1	50649.	995.68	47357.	509.94
Stddev	2.44	.15	1.70	10.6	507.	11.36	618.	.01
%RSD	.49463	.07585	.65972	1.0155	1.0013	1.1411	1.3047	.00256

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Mo2020	Na5895	Ni2816	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1017.8	51087.	490.38	495.79	542.5	2125.5	1997.2	1042.9
Stddev	5.1	531.	2.65	3.13	5.0	11.8	6.4	.6
%RSD	.49826	1.0388	.54091	.63224	.9124	.55313	.32186	.05771

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: lcs 240-49166/2-a Acquired: 6/29/2012 14:34:24 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1973.7	489.80	508.25	1076.0	958.68
Stddev	6.4	7.12	2.11	24.4	16.23
%RSD	.32409	1.4528	.41537	2.2657	1.6935

SiO₂

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8778.7	7014.6	73628.	9603.4
Stddev	34.4	32.9	96.	62.7
%RSD	.39129	.46916	.12979	.65274

Sample Name: 240-12453-q-1-a Acquired: 6/29/2012 14:38:02 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

nm7272

Tal-Al Sb Fe + B Li Si O2

Elem	<u>Ag</u> 3280	Al3082	<u>As</u> 1890	B_1826	<u>Ba</u> 4554	<u>Be</u> 3130	<u>Ca</u> 3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00957	7.7985	.43558	46.143	15.497	-.06421	107480.
Stddev	.39707	7.8586	.86594	.117	.542	.02821	943.
%RSD	4148.1	100.77	198.80	.25294	3.5001	43.935	.87706

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	<u>Cd</u> 2288	Co2286	<u>Cr</u> 2677	<u>Cu</u> 3273	<u>Fe</u> 2599	<u>K</u> 7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2579	.20910	.90288	-.74526	38.987	1610.8	18.967
Stddev	.1632	.16263	.19325	.92872	1.795	56.1	2.064
%RSD	63.29	77.774	21.404	124.62	4.6039	3.4803	10.880

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	<u>Mg</u> 2790	<u>Mn</u> 2576	Mo2020	<u>Na</u> 5895	<u>Ni</u> 2316	<u>Pb</u> 2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23090.	52.157	3.6504	20207.	1.5228	-.04543	-2.074
Stddev	260.	.396	.2513	170.	.2280	.59117	1.075
%RSD	1.1260	.75925	6.8831	.84278	14.974	1301.4	51.81

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12453-q-1-a Acquired: 6/29/2012 14:38:02 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8533	.23757	.19035	1.8251	-1.0333	.90944	4801.9
Stddev	1.4145	.47123	.05601	.7998	1.9779	.08671	28.7
%RSD	76.320	198.36	29.425	43.825	191.42	9.5343	.59686

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	161.92
Stddev	2.60
%RSD	1.6049

SiO₂

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8972.6	7045.3	74138.	9715.4
Stddev	39.4	31.4	419.	72.7
%RSD	.43936	.44566	.56460	.74805

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.245%	88.914%	89.239%	97.384%
Range				

Sample Name: SD 240-12453-q-1-a@5 Acquired: 6/29/2012 14:41:55 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13878	4.1283	-.50669	9.4374	3.8901	-.08469	22316.	.1434
Stddev	.14202	35.519	.18329	.1088	.0343	.01406	29.	.0902
%RSD	102.33	860.37	36.175	1.1532	.88302	16.600	.13100	62.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10254	.37554	-1.6285	12.483	144.11	9.5165	4798.2	10.925
Stddev	.15823	.20436	.5138	1.009	24.31	1.2550	26.3	.013
%RSD	154.31	54.419	31.550	8.0793	16.868	13.188	.54823	.12019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.73289	4179.6	.39066	-.95275	-3.524	.31255	-.20400	-.12214
Stddev	.07101	17.3	.43780	.78030	1.416	1.0786	.31339	.12042
%RSD	9.6897	.41278	112.07	81.899	40.18	345.10	153.62	98.593

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-12453-q-1-a@5 Acquired: 6/29/2012 14:41:55 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.34507	2.7583	1.0564	961.25	37.486
Stddev	.64322	1.2008	.1074	10.67	3.268
%RSD	186.40	43.533	10.169	1.1102	8.7186

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9327.2	7203.7	76270.	9834.1
Stddev	17.2	8.4	153.	11.9
%RSD	.18490	.11632	.20003	.12125

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.772%	90.914%	91.805%	98.574%
Range				

Sample Name: 240-12453-q-1-b.ms Acquired: 6/29/2012 14:45:42 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

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Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57.096	2208.2	2188.5	1171.3	2280.4	49.228	163750.
Stddev	.414	15.3	1.5	1.8	5.0	.106	653.
%RSD	.72573	.69285	.06998	.15314	.22071	.21544	.39864

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55.88	516.10	209.17	270.76	1142.4	55080.	1056.5
Stddev	.11	1.49	.95	1.11	3.0	56.	2.3
%RSD	.1987	.28943	.45492	.40864	.26313	.10136	.21485

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72397.	579.90	1079.0	74866.	513.50	511.22	578.7
Stddev	140.	.72	2.3	67.	1.75	2.11	2.9
%RSD	.19369	.12379	.21004	.08977	.34096	.41342	.5031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12453-q-1-b ms Acquired: 6/29/2012 14:45:42 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2215.6	2111.0	1084.3	2068.1	517.30	508.44	6236.7
Stddev	6.3	9.9	1.4	6.3	2.61	2.11	18.2
%RSD	.28294	.47048	.13159	.30304	.50421	.41415	.29145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	1162.4
Stddev	1.4
%RSD	.12215

(SiO₂)

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8594.5	6962.5	73667.	9738.1
Stddev	27.5	17.9	95.	5.0
%RSD	.31963	.25666	.12929	.05117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.485%	87.869%	88.672%	97.611%
Range				

Sample Name: 240-12453-q-1-c msd Acquired: 6/29/2012 14:49:29 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000 *hgm 7-2-12*
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment: *Full Al 9672 + B Li 5102*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56.401	2197.0	2155.6	1158.2	2238.0	48.754	162720.
Stddev	.177	16.1	7.6	4.0	4.6	.115	1302.
%RSD	.31331	.73415	.35043	.34486	.20654	.23625	.79988

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55.37	508.82	207.20	267.11	1117.4	55158.	1047.6
Stddev	.18	.94	.57	1.09	2.8	82.	3.0
%RSD	.3251	.18440	.27358	.40979	.25080	.14916	.28221

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72369.	573.98	1065.8	74811.	505.82	504.91	572.5
Stddev	312.	.81	2.4	238.	.99	1.26	3.8
%RSD	.43170	.14147	.22885	.31798	.19503	.24925	.6666

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12453-q-1-c msd Acquired: 6/29/2012 14:49:29 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 ;
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2185.3	2079.9	1072.2	2043.5	509.83	501.52	6174.3
Stddev	7.8	4.9	1.2	4.5	2.40	1.53	17.6
%RSD	.35731	.23375	.10737	.22130	.47080	.30530	.28433

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1145.7
Stddev	8.5
%RSD	.74481

SiO₂

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8667.6	7017.3	74122.	9852.4
Stddev	5.1	10.5	226.	32.1
%RSD	.05855	.14951	.30500	.32542

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.212%	88.561%	89.219%	98.756%
Range				

Sample Name: CCV Acquired: 6/29/2012 14:53:17 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1036.9	26185.	516.36	5178.2	2022.1	1903.1	50503.	522.9
Stddev	3.0	27.	2.12	22.2	2.5	4.5	34.	2.2
%RSD	.28534	.10177	.41014	.42960	.12294	.23383	.06772	.4253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1985.1	1985.1	2053.6	26104.	50660.	4884.9	46803.	1961.1
Stddev	5.5	1.7	4.0	33.	47.	6.7	101.	9.4
%RSD	.27549	.08754	.19529	.12617	.09369	.13807	.21592	.47887

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2051.3	51494.	1976.8	493.13	525.6	519.09	4954.7	4994.8
Stddev	8.4	70.	4.6	2.40	1.6	1.47	14.2	46.2
%RSD	.41022	.13618	.23442	.48678	.3071	.28404	.28652	.92519

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 14:53:17 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1003.4	1950.7	1949.8	5344.6	4728.2
Stddev	2.6	3.6	4.4	16.1	5.3
%RSD	.26103	.18607	.22424	.30095	.11242

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8683.4	7061.4	75637.	9850.4
Stddev	20.5	24.3	99.	21.3
%RSD	.23618	.34450	.13039	.21613

Sample Name: CCB Acquired: 6/29/2012 14:57:12 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.79600	-16.337	-.94012	14.127	1.2916	.43166	23.135	.0020
Stddev	.08538	42.388	.85283	1.797	.1451	.03321	2.115	.1487
%RSD	10.726	259.46	90.715	12.717	11.235	7.6946	9.1412	7492.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08464	.53922	-1.2316	5.8002	-131.73	8.5826	9.9643	.43531
Stddev	.12461	.06690	.7015	1.8580	20.53	1.3341	7.2628	.03855
%RSD	147.22	12.407	56.959	32.034	15.584	15.544	72.888	8.8552

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.67021	19.770	-.24644	.34300	-1.712	2.2534	.93250	1.5878
Stddev	.30257	9.610	.22916	1.0088	2.000	2.4803	.09768	.3612
%RSD	45.146	48.612	92.990	294.12	116.8	110.07	10.475	22.745

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 14:57:12 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.0878	2.3686	.20761	-19.366	4.0173
Stddev	1.1856	.2811	.03963	11.568	2.5595
%RSD	108.99	11.869	19.087	59.732	63.712

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9450.9	7303.1	77574.	9911.8
Stddev	24.6	17.5	276.	10.6
%RSD	.26060	.23921	.35624	.10676

Sample Name: 240-12453-p-1-a Acquired: 6/29/2012 15:01:01 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B1826 <i>nm 7-2-12</i>	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10831	-21.369	-.84164	47.927	14.761	.01353	105880.
Stddev	.15164	14.299	.71491	.389	.226	.05665	432.
%RSD	140.00	66.916	84.942	.81112	1.5287	418.76	.40818

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1831	-.00577	.81293	-.45255	3.0367	1418.2	13.972
Stddev	.2157	.28590	.32972	.20755	.4514	9.2	3.072
%RSD	117.8	4952.6	40.560	45.864	14.866	.64705	21.990

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22532.	21.510	3.3176	20518.	1.1434	-.84178	-3.446
Stddev	70.	.029	.2165	76.	.2156	.27219	2.169
%RSD	.30989	.13693	6.5268	.37024	18.853	32.335	62.94

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12453-p-1-a Acquired: 6/29/2012 15:01:01 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36248	-.11247	-.12926	2.0167	.45398	3.1428	4700.0
Stddev	.80496	.60587	.10910	.2969	2.3870	.0364	25.6
%RSD	222.07	538.67	84.402	14.721	525.78	1.1584	.54523

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	160.62
Stddev	3.90
%RSD	2.4255

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9108.5	7157.5	76302.	10010.
Stddev	25.9	20.4	69.	40.
%RSD	.28392	.28493	.09038	.40015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.597%	90.330%	91.843%	100.34%
Range				

Sample Name: 240-12453-q-3-a Acquired: 6/29/2012 15:04:55 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.8192	-44.766	-4.8295	53.970	71.619	.12134	182750.
Stddev	1.7874	34.942	5.8873	13.686	.898	.26666	1989.
%RSD	46.801	78.053	121.90	25.359	1.2537	219.76	1.0883

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.021	1.2684	6.2049	-11.835	2.9974	501.93	26.491
Stddev	.600	.8314	1.6614	4.393	9.4626	21.95	5.035
%RSD	58.71	65.544	26.776	37.122	315.69	4.3723	19.006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36844.	2256.5	1.7760	158120.	11.522	-2.3150	-6.972
Stddev	391.	4.4	2.5115	4025.	3.400	1.3478	6.574
%RSD	1.0618	.19695	141.42	2.5456	29.511	58.222	94.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12453-q-3-a Acquired: 6/29/2012 15:04:55 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.1288	2.7512	-.43232	3.0005	1.6440	4.3126	15143.
Stddev	6.1563	4.6192	.14626	.5304	5.9827	2.1962	19.
%RSD	120.03	167.90	33.833	17.678	363.91	50.924	.12265

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	427.42
Stddev	6.17
%RSD	1.4440

(Si02)

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8495.3	6869.8	68355.	9407.7
Stddev	293.0	161.2	598.	317.7
%RSD	3.4489	2.3467	.87488	3.3772

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.497%	86.699%	82.278%	94.299%
Range				

Sample Name: 240-12453-p-3-a Acquired: 6/29/2012 15:09:01 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.70394	-7.2461	.58790	48.181	72.963	-.12092	186670.
Stddev	.75248	26.536	1.5344	.430	.313	.04462	1679.
%RSD	106.90	366.21	261.00	.89324	.42966	36.898	.89955

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8307	.94815	1.0636	1.2304	.99654	398.77	20.330
Stddev	.0140	.09244	.0695	.6416	2.4390	12.80	.746
%RSD	1.681	9.7492	6.5380	52.145	244.75	3.2105	3.6705

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38060.	2274.9	.27149	149040.	14.033	-1.1170	-3.472
Stddev	77.	10.5	.05812	1480.	.089	.4673	2.352
%RSD	.20289	.46323	21.408	.99335	.63554	41.832	67.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12453-p-3-a Acquired: 6/29/2012 15:09:01 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-20728	-.11768	-.28085	4.0222	-1.5811	3.2119	14965.
Stddev	1.0304	.46406	.08987	.6508	2.8258	.0590	61.
%RSD	497.10	394.34	31.998	16.179	178.73	1.8375	.41087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	443.35
Stddev	1.49
%RSD	.33529

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8775.2	7021.6	75113.	9986.4
Stddev	9.3	8.8	48.	45.5
%RSD	.10571	.12519	.06375	.45568

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.282%	88.616%	90.412%	100.10%
Range				

Sample Name: 240-12453-q-6-a Acquired: 6/29/2012 15:13:12 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22637	85.596	.68631	31.901	10.760	-.05823	83609.	.2291
Stddev	.71346	9.304	1.4360	5.120	.013	.04082	141.	.1089
%RSD	315.18	10.870	209.23	16.050	.11699	70.101	.16907	47.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10889	1.0379	-.64943	179.17	633.99	11.496	15555.	232.18
Stddev	.07582	.1275	.80897	2.12	29.10	.964	60.	.62
%RSD	69.631	12.282	124.57	1.1859	4.5894	8.3828	.38751	.26734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0539	6057.2	96.714	-.88054	-3.951	.98848	-.41469	1.4397
Stddev	.0876	26.0	92.624	1.1523	.679	.24905	.05648	.1182
%RSD	8.3139	.42871	95.771	130.86	17.18	25.195	13.621	8.2067

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12453-q-6-a Acquired: 6/29/2012 15:13:12 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2047	.25644	34.706	9012.4	164.55
Stddev	.1096	.42881	31.465	27.6	2.99
%RSD	9.0997	167.22	90.661	.30586	1.8169

SiO2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9046.5	7046.6	76685.	10132.
Stddev	94.2	75.7	1248.	20.
%RSD	1.0408	1.0741	1.6271	.19287

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.980%	88.930%	92.304%	101.56%
Range				

Sample Name: 240-12453-s-7-a Acquired: 6/29/2012 15:16:58 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13098	18.759	21.093	18.914	202.07	-.07138	97586.	.2707
Stddev	.25756	15.251	2.008	.221	1.97	.07377	1050.	.1408
%RSD	196.65	81.300	9.5205	1.1685	.97590	103.35	1.0760	52.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02134	.94964	-.00075	2382.8	627.26	3.6578	20634.	84.599
Stddev	.21762	.07986	.34117	23.6	13.38	1.1867	230.	.140
%RSD	1020.0	8.4090	45309.	.99041	2.1338	32.444	1.1143	.16528

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5180	6394.1	7.0584	-.85536	-2.362	.78611	-.25556	-.07490
Stddev	.1347	60.4	1.8053	1.1328	3.104	1.9364	.14412	.05234
%RSD	8.8717	.94471	25.577	132.44	131.4	246.33	56.394	69.872

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12453-s-7-a Acquired: 6/29/2012 15:16:58 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4796	-.14166	5.0777	8840.7	151.55
Stddev	.6176	.70938	.5690	86.7	7.31
%RSD	41.744	500.76	11.206	.98053	4.8251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8836.3	6912.5	73920.	9722.1
Stddev	30.3	31.5	293.	108.9
%RSD	.34302	.45539	.39656	1.1198

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.889%	87.238%	88.976%	97.450%
Range				

Sample Name: 240-12453-p-6-a Acquired: 6/29/2012 15:20:53 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28501	-25.260	.13410	26.531	9.6575	-.05855	82787.	.2781
Stddev	.55952	12.313	1.5261	.247	.0842	.01863	633.	.0222
%RSD	196.32	48.743	1138.0	.93240	.87212	31.818	.76479	7.995

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18057	.77784	.21960	2.1413	533.98	11.142	15542.	6.5174
Stddev	.18499	.16210	.25430	1.6816	15.30	1.471	72.	.0497
%RSD	102.45	20.839	115.80	78.532	2.8653	13.205	.46441	.76323

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0109	5454.1	.83178	-1.2971	-2.991	.03609	-.60334	-.26462
Stddev	.0506	41.9	.48000	.9300	.545	.95542	.41652	.08423
%RSD	5.0059	.76913	57.708	71.694	18.22	2647.5	69.036	31.831

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12453-p-6-a Acquired: 6/29/2012 15:20:53 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3024	-.44880	1.6413	8699.7	162.19
Stddev	.3197	1.2363	.0423	45.0	6.78
%RSD	24.546	275.48	2.5782	.51668	4.1822

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9340.2	7309.3	76795.	9610.2
Stddev	37.6	26.5	1339.	23.9
%RSD	.40220	.36236	1.7434	.24893

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.901%	92.246%	92.436%	96.329%
Range				

Sample Name: 240-12453-a-14-a Acquired: 6/29/2012 15:24:40 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.42750	305.43	-1.0091	27.753	13.995	-.04681	62083.	.0993
Stddev	.08235	7.69	.5708	.238	.167	.04437	274.	.2048
%RSD	19.263	2.5165	56.570	.85832	1.1947	94.778	.44166	206.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09751	1.1743	.95813	470.41	675.51	3.8485	11234.	10.454
Stddev	.15521	.2655	.37809	1.64	7.07	.6261	79.	.037
%RSD	159.18	22.611	39.461	.34844	1.0464	16.269	.70445	.35296

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.8999	3982.1	1.1991	-.16123	-3.932	1.1237	-.97810	4.2439
Stddev	.1132	20.4	1.2507	.37935	1.721	.8395	.12002	.3610
%RSD	2.9028	.51271	104.31	235.29	43.78	74.710	12.271	8.5054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12453-a-14-a Acquired: 6/29/2012 15:24:40 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.1001	1.2782	2.8484	6815.0	91.804
Stddev	.0871	3.0901	.4308	33.7	1.161
%RSD	4.1484	241.76	15.125	.49485	1.2641

SiO2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9333.3	7281.8	77488.	10142.
Stddev	20.2	19.4	268.	67.
%RSD	.21689	.26699	.34567	.66538

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.833%	91.899%	93.270%	101.66%
Range				

Sample Name: 240-12453-a-15-a Acquired: 6/29/2012 15:28:26 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.56707	2.1537	-.97753	27.977	12.582	-.03326	61057.	.1506
Stddev	.48213	24.932	.68957	.093	.480	.02976	630.	.0655
%RSD	85.022	1157.6	70.542	.33079	3.8160	89.483	1.0318	43.48

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26614	.72205	.39966	1.2425	555.75	3.5876	10954.	1.4029
Stddev	.12301	.20104	.62995	.9499	52.15	.7566	88.	.0100
%RSD	46.220	27.843	157.62	76.455	9.3833	21.090	.79901	.71361

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.8152	3946.6	.74863	-.96127	-2.945	.93422	-.70343	-.31182
Stddev	.1832	39.0	.26296	.91138	1.269	2.0309	.09485	.11426
%RSD	4.8029	.98729	35.125	94.810	43.08	217.39	13.484	36.643

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12453-a-15-a Acquired: 6/29/2012 15:28:26 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	TI1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2094	.63158	2.7857	6260.5	86.358
Stddev	.3440	1.2286	.0490	73.0	1.725
%RSD	28.446	194.53	1.7581	1.1656	1.9979

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9399.7	7307.7	77581.	10194.
Stddev	9.9	6.6	409.	99.
%RSD	.10517	.09064	.52684	.97412

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.494%	92.226%	93.382%	102.18%
Range				

Sample Name: 240-12561-d-1-a Acquired: 6/29/2012 15:32:12 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39986	-22.089	.57187	99.274	29.010	-.20569	366660.
Stddev	.12876	23.526	1.5343	.516	.156	.04384	9272.
%RSD	32.202	106.50	268.29	.51955	.53767	21.313	2.5289

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9132	-.29031	1.2609	2.4022	9.9087	1998.7	17.028
Stddev	.3352	.08546	.1839	1.2820	.0436	47.5	1.778
%RSD	36.71	29.438	14.588	53.368	.44042	2.3765	10.439

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	245340.	8.2926	6.8875	51046.	11.231	-1.0715	-5.832
Stddev	1429.	.0394	.1176	197.	2.297	.4112	4.255
%RSD	.58248	.47511	1.7081	.38623	20.450	38.372	72.96

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12561-d-1-a Acquired: 6/29/2012 15:32:12 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31787	-.37577	-1.0817	2.8645	-.31918	14.549	7943.1
Stddev	1.4857	.15291	.1206	.9793	1.5986	.774	36.5
%RSD	467.40	40.694	11.152	34.187	500.83	5.3198	.45969

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2799.7
Stddev	17.8
%RSD	.63692

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8313.9	6664.8	72706.	9837.8
Stddev	33.1	22.1	408.	172.5
%RSD	.39785	.33171	.56123	1.7534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.693%	84.112%	87.514%	98.610%
Range				

Sample Name: 240-12561-d-2-a Acquired: 6/29/2012 15:36:06 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12496	43.151	-.57690	47.694	89.641	-.11509	245680.
Stddev	.40338	17.075	1.0651	1.721	.454	.04708	2094.
%RSD	322.80	39.569	184.63	3.6086	.50600	40.904	.85244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6941	-.09179	1.2328	4.2645	34.689	832.56	-1.9401
Stddev	.0446	.17500	.1376	.6233	.739	38.28	2.3590
%RSD	6.422	190.66	11.158	14.615	2.1317	4.5982	121.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	100120.	23.029	1.1339	19953.	4.6106	-1.5907	-4.644
Stddev	358.	.081	.2869	40.	2.6529	.9299	1.186
%RSD	.35769	.35123	25.307	.20281	57.539	58.460	25.54

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12561-d-2-a Acquired: 6/29/2012 15:36:06 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-67424	-07148	.16439	2.3910	1.0438	3.8846	6908.9
Stddev	1.6443	.32955	.11517	.2863	.7040	1.1466	15.3
%RSD	243.87	461.06	70.059	11.973	67.444	29.516	.22096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1765.8
Stddev	12.3
%RSD	.69730

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8463.6	6772.1	73303.	9707.7
Stddev	185.7	138.6	110.	23.5
%RSD	2.1939	2.0461	.14943	.24254

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.182%	85.466%	88.233%	97.306%
Range				

Sample Name: CCV Acquired: 6/29/2012 15:40:00 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1044.9	26118.	515.07	5186.3	2039.0	1918.3	50224.	521.1
Stddev	1.9	155.	1.33	4.6	5.0	7.5	154.	.8
%RSD	.18004	.59500	.25729	.08928	.24689	.38936	.30610	.1516

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1989.8	1988.4	2064.2	26003.	50262.	4877.1	47170.	1985.7
Stddev	1.5	2.8	4.2	105.	209.	19.2	161.	9.2
%RSD	.07464	.13918	.20126	.40304	.41587	.39356	.34139	.46365

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2050.1	51411.	1989.0	496.93	522.9	518.00	4967.8	5073.4
Stddev	1.8	237.	8.0	2.44	1.1	.98	5.5	35.9
%RSD	.08976	.46188	.40028	.49069	.2180	.19001	.11080	.70804

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 15:40:00 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1004.8	1957.5	1973.9	5341.8	4784.2
Stddev	1.9	6.2	2.0	86.8	17.7
%RSD	.19368	.31686	.10218	1.6248	.37060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8357.1	6802.0	72288.	9448.7
Stddev	44.6	44.0	169.	64.0
%RSD	.53344	.64615	.23377	.67724

Sample Name: CCB Acquired: 6/29/2012 15:43:55 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31004	12.133	-1.0098	12.247	1.0201	.27266	15.978	.1137
Stddev	.62101	14.608	1.5040	1.667	.2562	.04688	.680	.0815
%RSD	200.30	120.40	148.93	13.612	25.115	17.194	4.2584	71.65

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22164	.22149	-.51054	5.0345	-280.66	2.0002	7.4178	.18413
Stddev	.17427	.03275	.32073	.8102	32.20	2.0970	9.7682	.04117
%RSD	78.626	14.788	62.822	16.092	11.475	104.84	131.69	22.360

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35742	-10.026	.03990	.53705	-2.693	1.4732	.12308	1.2017
Stddev	.14026	10.233	.13593	.98063	2.741	.5632	.27322	.2897
%RSD	39.242	102.07	340.68	182.60	101.8	38.229	221.98	24.104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 15:43:55 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.33343	-1.1333	-.01751	-23.949	7.0133
Stddev	.62120	1.3739	.04390	10.485	2.7643
%RSD	186.31	121.23	250.77	43.782	39.416

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9507.9	7382.5	74853.	9432.3
Stddev	16.8	10.8	929.	40.9
%RSD	.17665	.14695	1.2409	.43362

Sample Name: 240-12579-f-1-a Acquired: 6/29/2012 15:47:44 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11138	692.56	2.7780	636.26	84.187	-.07974	155390.
Stddev	.17932	16.72	.7146	3.25	.242	.00202	657.
%RSD	161.00	2.4138	25.724	.51046	.28738	2.5327	.42305

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4326	2.3709	123.25	9.2932	1595.4	1898.1	42.911
Stddev	.1163	.2377	1.37	.8260	.3	38.3	1.270
%RSD	26.89	10.026	1.1149	8.8885	.01624	2.0199	2.9594

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50019.	88.907	1.4651	44287.	54.667	.30945	-6.089
Stddev	137.	.917	.2169	12.	.285	.75193	1.240
%RSD	.27367	1.0318	14.801	.02796	.52153	242.98	20.37

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12579-f-1-a Acquired: 6/29/2012 15:47:44 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.4182	-0.05932	13.310	2.0156	.73613	9.8237	14258.
Stddev	1.3397	.14060	.523	.3420	2.7800	.0391	43.
%RSD	39.195	237.01	3.9292	16.968	377.65	.39847	.30272

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	247.02
Stddev	.12
%RSD	.04777

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8926.1	7141.2	75470.	10040.
Stddev	19.1	19.6	756.	17.
%RSD	.21430	.27445	1.0017	.17040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.782%	90.125%	90.841%	100.64%
Range				

Sample Name: 240-12579-f-2-a Acquired: 6/29/2012 15:51:37 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37144	-27.396	.33215	3.6247	.47203	-.06918	61.508	-.0450
Stddev	.51279	8.193	.38458	.4250	.19936	.02067	7.584	.0080
%RSD	138.05	29.907	115.79	11.725	42.234	29.881	12.330	17.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03645	.33226	-.09840	2.7690	-303.60	-.03142	12.115	.19457
Stddev	.11324	.22181	1.1537	.7493	8.26	.20294	14.027	.01702
%RSD	310.65	66.759	1172.4	27.060	2.7212	645.91	115.78	8.7486

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03280	26.185	-.41507	.21320	-3.308	1.0518	-.30941	-.14343
Stddev	.12283	4.347	.16456	1.0070	2.433	1.2728	.24987	.08676
%RSD	374.45	16.600	39.646	472.32	73.55	121.01	80.758	60.485

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12579-f-2-a Acquired: 6/29/2012 15:51:37 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.71136	.42146	1.0229	-2.3394	.58742
Stddev	.60300	2.1605	.0324	2.8214	1.4401
%RSD	84.767	512.62	3.1646	120.60	245.15

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9555.3	7453.1	78509.	10100.
Stddev	18.5	5.9	133.	25.
%RSD	.19359	.07968	.16935	.24740

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.041%	94.061%	94.499%	101.24%
Range				

Sample Name: 240-12579-f-3-a Acquired: 6/29/2012 15:55:26 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35984	2602.0	3.1616	326.30	98.312	.05636	161420.
Stddev	.11506	17.3	.6636	.50	.248	.02352	904.
%RSD	31.975	.66317	20.989	.15393	.25224	41.736	.56030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3617	2.4079	36.468	9.3413	5699.7	9059.9	18.898
Stddev	.1272	.1020	1.437	.5736	15.7	22.1	.341
%RSD	35.18	4.2337	3.9390	6.1406	.27529	.24385	1.8053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29751.	179.50	.39748	29844.	19.284	2.5912	-6.964
Stddev	50.	7.15	.07780	61.	.270	.5220	1.290
%RSD	.16914	3.9844	19.572	.20491	1.4017	20.145	18.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12579-f-3-a Acquired: 6/29/2012 15:55:26 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.8260	.03298	62.779	2.0908	4.6125	56.585	12786.
Stddev	1.6449	.42199	2.259	.1716	1.3486	.044	380.
%RSD	34.085	1279.7	3.5978	8.2055	29.238	.07752	2.9745

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	210.80
Stddev	1.10
%RSD	.51963

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9019.8	7241.6	75464.	10114.
Stddev	35.5	24.4	2475.	48.
%RSD	.39378	.33704	3.2793	.47478

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.714%	91.391%	90.834%	101.38%
Range				

Sample Name: 240-12579-f-5-a Acquired: 6/29/2012 15:59:19 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10828	1352.1	3.3218	354.86	92.894	-.03426	166220.
Stddev	.32427	15.0	.8531	2.22	.287	.01778	720.
%RSD	299.49	1.1117	25.681	.62556	.30912	51.904	.43324

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2260	1.3919	35.514	6.2810	3121.1	9402.0	15.233
Stddev	.1525	.1939	.226	.5125	1.8	58.9	.885
%RSD	67.48	13.930	.63505	8.1592	.05625	.62677	5.8092

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28744.	96.088	.57255	32096.	18.050	1.5282	-5.173
Stddev	82.	.237	.10966	115.	.116	.5405	2.320
%RSD	.28612	.24712	19.153	.35797	.64219	35.371	44.85

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12579-f-5-a Acquired: 6/29/2012 15:59:19 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7510	.06071	25.647	1.2328	.44541	36.384	13458.
Stddev	1.4838	.53612	.226	.4527	1.0571	.307	22.
%RSD	31.231	883.02	.88017	36.726	237.34	.84315	.16621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	219.04
Stddev	3.27
%RSD	1.4928

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9008.7	7207.0	76252.	10101.
Stddev	29.2	17.4	166.	23.
%RSD	.32407	.24123	.21808	.22880

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.604%	90.955%	91.783%	101.25%
Range				

Sample Name: 240-12609-k-14-a Acquired: 6/29/2012 16:03:11 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22455	9775.7	6.8485	65.420	340.46	.24000	290650.
Stddev	.40280	24.9	.9541	.515	1.37	.06174	911.
%RSD	179.38	.25457	13.932	.78715	.40272	25.725	.31336

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7459	4.9220	15.302	18.420	13472.	6607.2	18.637
Stddev	.0861	.1742	.250	.442	37.	18.7	1.198
%RSD	11.54	3.5392	1.6324	2.3971	.27297	.28301	6.4263

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94663.	600.81	5.5095	127690.	127.01	4.8928	-3.714
Stddev	276.	8.31	.1816	191.	1.01	.7011	1.746
%RSD	.29157	1.3836	3.2965	.14931	.79225	14.329	47.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12609-k-14-a Acquired: 6/29/2012 16:03:11 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.86434	.73194	246.08	3.1613	21.567	72.165	30713.
Stddev	1.6544	.13857	5.15	1.4237	.301	.536	118.
%RSD	191.41	18.932	2.0924	45.034	1.3959	.74252	.38313

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	486.38
Stddev	.55
%RSD	.11245

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8512.9	7089.8	74815.	10045.
Stddev	35.8	28.0	811.	33.
%RSD	.42018	.39555	1.0842	.33080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.673%	89.476%	90.053%	100.69%
Range				

Sample Name: 240-12609-k-15-a Acquired: 6/29/2012 16:07:07 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29211	119.26	24.714	58.435	453.82	-.29077
Stddev	.53522	19.18	.538	.485	.60	.02773
%RSD	183.23	16.086	2.1771	.83006	.13246	9.5357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	448630.	.7027	.87184	1.3549	3.4702	12557.
Stddev	5659.	.1265	.11478	.2459	1.2827	33.
%RSD	1.2614	18.00	13.165	18.150	36.964	.26489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10897.	36.271	144030.	607.37	16.804	F 940030.
Stddev	27.	1.330	716.	.95	.233	28401.
%RSD	.24427	3.6657	.49743	.15683	1.3892	3.0213

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12609-k-15-a Acquired: 6/29/2012 16:07:07 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	71.948	-1.3812	-6.975	-.09948	1.1157	2.0163
Stddev	.405	.6392	1.531	1.0747	.0844	.2837
%RSD	.56257	46.279	21.94	1080.3	7.5656	14.070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.6719	-.78723	4.1595	13584.	1189.5
Stddev	1.6390	1.8238	.0358	19.	9.6
%RSD	61.344	231.68	.86105	.13761	.80614

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7761.7	6498.5	68429.	9567.9
Stddev	20.8	20.9	169.	44.3
%RSD	.26859	.32175	.24682	.46258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.201%	82.014%	82.366%	95.905%
Range				

Sample Name: 240-12694-c-2-a Acquired: 6/29/2012 16:11:09 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12901	596.33	2.2933	296.60	4.1261	-.02482	41724.
Stddev	.28177	18.38	.9783	4.25	.2832	.03594	680.
%RSD	218.41	3.0813	42.657	1.4341	6.8640	144.82	1.6302

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0382	.12875	5.1537	2.8207	112.38	8069.6	53.563
Stddev	.0404	.12191	.2997	1.1156	.34	178.0	2.247
%RSD	105.7	94.692	5.8155	39.552	.30075	2.2055	4.1958

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5911.5	114.23	10.267	205040.	151.94	1.4394	-1.773
Stddev	88.2	3.05	.134	2825.	2.20	.6158	2.052
%RSD	1.4926	2.6682	1.3078	1.3777	1.4494	42.785	115.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12694-c-2-a Acquired: 6/29/2012 16:11:09 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26416	18.970	2.1909	2.1097	1.2006	94.065	4469.7
Stddev	1.1385	.287	.2271	.9884	3.4574	1.543	83.6
%RSD	430.99	1.5116	10.366	46.850	287.98	1.6400	1.8697

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	586.32
Stddev	7.70
%RSD	1.3140

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9122.4	7301.7	78637.	10180.
Stddev	114.9	82.9	1415.	65.
%RSD	1.2591	1.1352	1.7997	.64186

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.735%	92.150%	94.654%	102.04%
Range				

Sample Name: 240-12706-a-2-a Acquired: 6/29/2012 16:15:03 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.34025	126.52	.78964	344.82	34.955	-.27282
Stddev	.81429	11.43	.88508	.54	.171	.01507
%RSD	239.32	9.0378	112.09	.15599	.48946	5.5254

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	331900.	-.1057	.47379	30.510	8.2644	154.85
Stddev	1695.	.2247	.16980	.226	.1780	1.73
%RSD	.51061	212.6	35.839	.74208	2.1543	1.1188

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	168530.	483.19	4036.1	7.3007	17.482	F 684780.
Stddev	205.	1.89	16.5	.0064	.261	16695.
%RSD	.12190	.39061	.40870	.08714	1.4929	2.4380

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12706-a-2-a Acquired: 6/29/2012 16:15:03 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	237.35	-85565	-6.380	-1.0180	12.812	-.63161
Stddev	.27	1.7350	.668	2.3749	.135	.00890
%RSD	.11292	202.77	10.47	233.28	1.0538	1.4088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.7618	1.5200	71.345	2593.7	6341.2
Stddev	.1218	1.1919	.094	8.1	14.3
%RSD	4.4117	78.414	.13201	.31317	.22613

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8197.4	6837.2	71935.	9967.6
Stddev	2.7	6.6	68.	25.7
%RSD	.03319	.09673	.09489	.25819

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.534%	86.288%	86.587%	99.911%
Range				

Sample Name: 240-12717-d-1-a Acquired: 6/29/2012 16:19:05 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.055	287220.	89.867	137.17	4642.8	12.107	230380.
Stddev	.478	168.	2.222	.56	91.9	.044	1010.
%RSD	2.9772	.05840	2.4724	.40992	1.9790	.36438	.43832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.890	361.12	296.80	615.64	279710.	30858.	175.21
Stddev	.104	2.69	3.98	9.89	4802.	19.	.22
%RSD	1.316	.74352	1.3424	1.6060	1.7168	.06127	.12368

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58427.	14403.	21.688	3912.6	425.60	399.77	-3.539
Stddev	172.	197.	.299	44.6	3.43	3.33	1.172
%RSD	.29375	1.3700	1.3773	1.1393	.80661	.83395	33.12

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12717-d-1-a Acquired: 6/29/2012 16:19:05 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.835	62.428	1060.9	18.957	409.05	5758.3	53977.
Stddev	2.062	.189	18.0	.416	1.86	34.7	6922.
%RSD	12.247	.30278	1.6977	2.1950	.45425	.60181	12.823

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	860.06
Stddev	3.23
%RSD	.37540

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8423.7	W 10873.	W 111080.	W 15351.
Stddev	40.9	37.	1179.	77.
%RSD	.48558	.33631	1.0612	.49894

Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Warn
Value	83.786%	137.22%	133.71%	153.87%
Range		30.500%	30.500%	30.500%

Sample Name: 240-12717-d-1-a@5 Acquired: 6/29/2012 16:23:19 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6567	77744.	24.365	37.454	1271.8	3.3160	65490.	2.133
Stddev	.5345	71.	1.478	.356	.5	.0253	94.	.202
%RSD	11.477	.09082	6.0658	.95014	.03774	.76416	.14321	9.456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	71.116	83.050	160.26	82181.	8128.2	47.975	16472.	4383.7
Stddev	.386	.159	.41	141.	23.5	.581	46.	17.9
%RSD	.54292	.19102	.25479	.17105	.28860	1.2119	.27955	.40851

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.0410	1168.4	82.378	114.32	-2.941	6.2467	11.705	284.73
Stddev	.1576	25.5	.503	1.27	4.276	1.0111	.630	.78
%RSD	2.6085	2.1813	.61027	1.1093	145.4	16.187	5.3803	.27356

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12717-d-1-a@5 Acquired: 6/29/2012 16:23:19 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	4.4409	115.07	1152.5	16335.	243.23
Stddev	1.0544	1.23	6.9	431.	1.61
%RSD	23.744	1.0689	.59847	2.6413	.66375

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9165.9	8165.7	84805.	11160.
Stddev	51.5	45.1	212.	44.
%RSD	.56200	.55194	.25041	.39767

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.168%	103.05%	102.08%	111.86%
Range				

Sample Name: CCV Acquired: 6/29/2012 16:27:12 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1044.9	25979.	509.28	5199.7	2040.7	1940.6	49986.	512.4
Stddev	5.4	54.	1.71	9.7	1.8	3.3	21.	1.9
%RSD	.51821	.20818	.33487	.18688	.08600	.16920	.04162	.3646

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1981.3	1970.9	2062.3	25796.	50523.	4932.4	47784.	1968.1
Stddev	4.9	9.8	11.6	50.	74.	11.2	120.	10.9
%RSD	.24934	.49861	.56121	.19239	.14713	.22712	.25165	.55604

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2026.2	51529.	1973.8	489.32	511.4	514.93	4971.0	5155.2
Stddev	5.9	120.	4.8	1.23	3.4	3.27	9.6	15.6
%RSD	.29289	.23298	.24478	.25093	.6647	.63446	.19358	.30249

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 16:27:12 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1001.3	1946.7	1958.5	5453.4	4814.5
Stddev	2.2	4.7	4.4	139.5	10.1
%RSD	.21854	.24299	.22470	2.5576	.20980

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8809.2	7233.8	75842.	9921.4
Stddev	1.6	5.6	400.	12.8
%RSD	.01812	.07808	.52732	.12925

Sample Name: CCB Acquired: 6/29/2012 16:31:07 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64529	-6.1470	-.20361	12.273	1.1341	.28148	10.569	-.0524
Stddev	.20286	21.437	.56786	1.659	.1571	.14190	6.049	.0480
%RSD	31.437	348.74	278.90	13.520	13.851	50.412	57.233	91.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03618	.55497	.74587	7.5067	-152.07	4.0513	2.4950	.27828
Stddev	.22228	.15928	.32518	2.7271	19.12	.2666	20.446	.02471
%RSD	614.40	28.700	43.597	36.328	12.574	6.5794	819.49	8.8785

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36792	77.013	-.47854	-.31796	-2.060	.48773	.40430	1.1597
Stddev	.08166	16.899	.17712	.68106	1.643	.39982	.23479	.2756
%RSD	22.195	21.943	37.013	214.20	79.76	81.976	58.074	23.762

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 16:31:07 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.19391	-.75467	.02831	-4.9219	7.1394
Stddev	.41770	.86927	.02486	3.9906	4.1522
%RSD	215.41	115.18	87.827	81.078	58.158

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9492.6	7419.6	78437.	10096.
Stddev	34.3	32.3	541.	24.
%RSD	.36098	.43569	.69010	.24201

Sample Name: mb 240-49161/1-a Acquired: 6/29/2012 16:34:58 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

Tal-Alsbr + B LiSiO2

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.50639	-20.949	-.05758	4.9598	.55591	-.07160	67.237	.0065
Stddev	.15039	11.435	1.7806	.6368	.08319	.01450	1.639	.2254
%RSD	29.698	54.585	3092.6	12.838	14.965	20.249	2.4378	3485.

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08876	.19190	.53236	1.3350	-169.61	4.5283	1.4390	.51472
Stddev	.28572	.24047	.51043	2.1098	27.49	.4651	19.673	.03102
%RSD	321.89	125.31	95.882	158.04	16.208	10.270	1367.2	6.0256

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11070	16.547	-.47414	.07355	-3.281	-.03449	-.50175	-.10815
Stddev	.02800	3.130	.25856	1.1290	2.271	.70759	.34751	.03251
%RSD	25.290	18.915	54.533	1535.0	69.22	2051.4	69.259	30.060

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: mb 240-49161/1-a Acquired: 6/29/2012 16:34:58 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3734	.22581	2.6142	-18.824	.88536
Stddev	.3338	3.0822	.0332	2.480	3.6135
%RSD	24.306	1365.0	1.2689	13.173	408.14

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9635.0	7544.3	79432.	10288.
Stddev	31.2	22.2	202.	20.
%RSD	.32369	.29473	.25405	.19728

Sample Name: lcs 240-49161/2-a Acquired: 6/29/2012 16:38:45 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

Tal - Al Sb Ti + B Li Si O2

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56.657	2142.1	2141.2	1128.1	2264.9	50.404	52110.	53.74
Stddev	.760	19.4	1.6	1.5	2.3	.064	44.	.16
%RSD	1.3417	.90419	.07381	.13052	.10131	.12630	.08481	.3060

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	513.94	207.46	271.83	1069.6	52743.	1051.9	50028.	528.76
Stddev	.27	.55	1.19	2.4	47.	3.0	12.	.43
%RSD	.05201	.26454	.43832	.22607	.08972	.28787	.02304	.08211

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1065.8	53709.	512.12	512.16	560.5	2208.7	2096.4	1108.3
Stddev	1.8	101.	.29	1.59	1.8	2.3	3.4	1.1
%RSD	.17262	.18829	.05633	.31092	.3269	.10270	.16248	.10142

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: lcs 240-49161/2-a Acquired: 6/29/2012 16:38:45 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2082.6	515.33	517.76	1135.4	1024.8
Stddev	3.5	2.36	.64	17.1	3.6
%RSD	.17021	.45840	.12405	1.5093	.34904

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9004.5	7277.4	76334.	10033.
Stddev	8.0	14.8	64.	8.
%RSD	.08867	.20319	.08330	.07847

Sample Name: 240-12536-c-10-b Acquired: 6/29/2012 16:42:23 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal - Al Sb TL + B Li SiO₂

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18352	-5.3193	5.9209	71.923	116.31	-.25367	307140.
Stddev	.69430	5.3175	2.3301	.183	.60	.05002	1424.
%RSD	378.31	99.965	39.354	.25481	.51879	19.718	.46355

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1154	1.2903	7.4042	37.110	5.0754	28037.	42.078
Stddev	.1707	.0545	.2066	.975	1.1867	143.	1.095
%RSD	147.9	4.2245	2.7897	2.6284	23.382	.50966	2.6023

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.013	.44970	139.00	112160.	30.885	.59022	-5.291
Stddev	3.042	.03716	.34	551.	.103	.66541	1.519
%RSD	11.263	8.2636	.24424	.49150	.33513	112.74	28.71

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12536-c-10-b Acquired: 6/29/2012 16:42:23 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.155	.26022	-.26556	2.9784	-.24716	21.237	871.62
Stddev	1.054	.25350	.09944	.4526	2.8914	.076	10.85
%RSD	7.4469	97.417	37.445	15.195	1169.9	.35661	1.2451

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	642.24
Stddev	4.97
%RSD	.77416

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8815.5	7100.5	74731.	9959.0
Stddev	27.1	23.6	191.	25.4
%RSD	.30732	.33274	.25564	.25523

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.682%	89.611%	89.952%	99.825%
Range				

Sample Name: SD240-12536-c-10-b@5 Acquired: 6/29/2012 16:46:17 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15218	.53834	1.5293	15.665	24.424	-.10530	65313.	-.0332
Stddev	.22187	4.1557	.5035	.465	.253	.02157	426.	.1608
%RSD	145.79	771.95	32.923	2.9659	1.0349	20.482	.65261	484.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18883	2.3033	7.8774	4.8368	5648.0	11.164	1.3136	.23645
Stddev	.07114	.1553	1.0810	2.1523	67.0	.796	16.137	.02635
%RSD	37.674	6.7405	13.723	44.498	1.1858	7.1286	1228.4	11.146

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.780	23447.	6.2395	-.30811	-2.510	4.0165	-.12597	-.07696
Stddev	.350	203.	.2148	1.0125	1.367	.9703	.03283	.18243
%RSD	1.2160	.86731	3.4423	328.62	54.46	24.159	26.059	237.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD240-12536-c-10-b@5 Acquired: 6/29/2012 16:46:17 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.0409	1.1178	6.8110	166.61	139.41
Stddev	.3603	2.3219	.0764	2.75	2.41
%RSD	34.610	207.72	1.1223	1.6532	1.7298

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9406.0	7375.5	77107.	10050.
Stddev	56.3	42.3	132.	71.
%RSD	.59891	.57315	.17113	.70187

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.556%	93.081%	92.811%	100.74%
Range				

Sample Name: 240-12536-c-10-c ms Acquired: 6/29/2012 16:50:05 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *TAL-AL SBTL + B Li SiO2*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57.379	2156.9	2193.4	1207.2	2376.5	49.279	359360.
Stddev	.158	23.8	1.6	2.2	4.3	.069	1678.
%RSD	.27548	1.1033	.07473	.18067	.18117	.13984	.46683

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.34	518.74	210.42	314.06	1056.2	81928.	1089.1
Stddev	.11	.62	.39	.12	3.5	135.	2.4
%RSD	.1990	.11893	.18562	.03914	.32707	.16467	.22431

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48870.	520.68	1198.5	165440.	544.69	499.82	566.1
Stddev	33.	1.25	.3	411.	.56	.78	1.4
%RSD	.06707	.23983	.02799	.24840	.10210	.15591	.2470

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12536-c-10-c ms Acquired: 6/29/2012 16:50:05 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2218.2	2101.8	1100.3	2050.0	504.19	529.19	2066.1
Stddev	6.5	2.2	3.3	4.0	3.47	.51	37.2
%RSD	.29292	.10690	.29904	.19290	.68914	.09565	1.7982

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1644.6
Stddev	3.1
%RSD	.18890

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8465.6	6969.1	73748.	9948.7
Stddev	1.4	4.3	162.	2.0
%RSD	.01648	.06112	.21917	.02027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.202%	87.952%	88.768%	99.722%
Range				

Sample Name: 240-12536-c-10-d msd Acquired: 6/29/2012 16:54:00 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal - Al Sb R + B Li Si O2

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57.168	2165.2	2199.5	1210.6	2381.0	49.827	357070.
Stddev	.167	48.7	1.4	2.9	7.2	.058	4025.
%RSD	.29284	2.2499	.06210	.23898	.30073	.11545	1.1273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.88	520.93	209.32	313.16	1115.3	82440.	1098.9
Stddev	.11	1.43	.36	.29	4.9	74.	1.5
%RSD	.2069	.27471	.17243	.09377	.43939	.09027	.13286

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49437.	521.03	1199.0	166430.	546.13	501.09	568.3
Stddev	65.	1.07	1.7	1334.	.82	1.14	1.3
%RSD	.13189	.20539	.14384	.80176	.15005	.22787	.2316

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12536-c-10-d msd Acquired: 6/29/2012 16:54:00 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2225.5	2107.6	1102.1	2054.3	510.21	531.73	2064.8
Stddev	2.1	5.9	2.1	5.4	2.50	1.48	31.8
%RSD	.09565	.27913	.19210	.26323	.48967	.27742	1.5377

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1659.5
Stddev	3.4
%RSD	.20776

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8477.0	6989.0	74143.	9982.5
Stddev	20.0	12.3	191.	26.6
%RSD	.23546	.17588	.25706	.26680

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.316%	88.204%	89.244%	100.06%
Range				

Sample Name: 240-12529-g-5-a Acquired: 6/29/2012 16:57:55 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47931	-5.1045	.03754	15.548	181.94	-.06474	50423.	.3239
Stddev	.14790	6.0839	1.7372	.481	.57	.04210	232.	.0398
%RSD	30.856	119.19	4627.1	3.0954	.31401	65.029	.46018	12.27

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16613	1.0300	4.2638	6.1420	1281.6	2.7050	28729.	.35818
Stddev	.12929	.2226	.3893	.4842	37.8	.3981	98.	.03106
%RSD	77.824	21.612	9.1298	7.8842	2.9487	14.716	.34058	8.6714

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.77055	4301.1	-.03868	.49737	.1819	2.4387	.25128	-.07596
Stddev	.14543	23.7	.36344	.32003	2.079	.4554	.04201	.15129
%RSD	18.874	.55129	939.49	64.344	1143.	18.675	16.717	199.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12529-g-5-a Acquired: 6/29/2012 16:57:55 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.8081	-2.0634	15.997	4939.3	61.059
Stddev	.6722	1.1958	.022	32.4	4.122
%RSD	37.178	57.955	.13562	.65568	6.7511

SiO₂

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9320.6	7425.1	77985.	10162.
Stddev	27.1	23.2	126.	35.
%RSD	.29128	.31282	.16154	.34929

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.707%	93.707%	93.869%	101.86%
Range				

Sample Name: 240-12529-g-6-a Acquired: 6/29/2012 17:01:43 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09947	3.3763	.90204	31.497	185.68	-.08416	73010.	.4027
Stddev	.71810	5.6842	1.4269	.317	.31	.06775	200.	.0429
%RSD	721.96	168.36	158.19	1.0077	.16651	80.507	.27399	10.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37493	.81839	2.1168	79.413	2283.1	.44666	37446.	76.115
Stddev	.14992	.10281	.7890	1.562	59.0	.68885	55.	.066
%RSD	39.987	12.563	37.274	1.9669	2.5825	154.22	.14641	.08682

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04633	7216.8	5.5770	.95931	-3.758	.88792	-.50141	-.05884
Stddev	.00842	16.2	.2599	.58918	.616	.28624	.09121	.10730
%RSD	18.185	.22481	4.6599	61.417	16.40	32.237	18.191	182.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12529-g-6-a Acquired: 6/29/2012 17:01:43 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.8780	-.63894	87.259	6174.3	114.23
Stddev	.2562	1.9599	.103	26.1	3.49
%RSD	13.641	306.74	.11779	.42317	3.0515

SiO2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710	- - - -
Units	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	9194.2	7331.9	77102.	10061.	
Stddev	18.0	5.0	105.	20.	
%RSD	.19553	.06878	.13568	.19713	

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.449%	92.532%	92.806%	100.85%
Range				

Sample Name: 240-12552-i-1-a Acquired: 6/29/2012 17:05:28 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal - Al Sb R

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02262	-12.597	.46176	283.22	246.38	-.14078	157660.
Stddev	.25186	9.462	1.0558	.60	.49	.06280	1210.
%RSD	1113.5	75.111	228.65	.21267	.20042	44.610	.76776

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4292	.86724	1.5556	3.1968	9.8572	9955.2	5.5019
Stddev	.1405	.06598	.2368	.5422	.4775	32.5	1.4367
%RSD	32.74	7.6080	15.225	16.962	4.8446	.32628	26.112

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52900.	455.98	3.4360	35831.	7.0140	-.76980	-5.202
Stddev	99.	.75	.2101	112.	.3364	.45462	.715
%RSD	.18734	.16549	6.1143	.31217	4.7957	59.058	13.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12552-i-1-a Acquired: 6/29/2012 17:05:28 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.68202	-.21438	-.27513	2.5588	-1.4802	3.2933	9313.6
Stddev	.75745	.44420	.19345	.8864	3.0487	.0864	51.3
%RSD	111.06	207.20	70.315	34.640	205.97	2.6223	.55077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	184.04
Stddev	3.88
%RSD	2.1094

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8875.7	7199.9	75767.	9992.0
Stddev	42.7	28.5	144.	12.7
%RSD	.48111	.39603	.19039	.12697

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.281%	90.865%	91.199%	100.16%
Range				

Sample Name: 240-12552-i-3-a Acquired: 6/29/2012 17:09:22 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal-Al Sr Tr

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39463	47.213	2.9501	93.426	460.99	-.10878	157800.
Stddev	.26003	13.676	2.1294	.069	2.61	.04760	2390.
%RSD	65.894	28.966	72.180	.07353	.56658	43.757	1.5148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6087	5.9489	2.6775	2.1757	1986.0	3610.0	1.9608
Stddev	.1395	.2427	.0485	.9399	10.7	54.5	1.7498
%RSD	22.92	4.0796	1.8097	43.199	.53891	1.5092	89.235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52069.	1282.7	4.4654	22922.	8.9461	-.44655	-5.892
Stddev	245.	11.3	.0349	116.	.0397	.35141	.847
%RSD	.47094	.87854	.78101	.50678	.44396	78.694	14.38

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12552-i-3-a Acquired: 6/29/2012 17:09:22 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.98408	-.45599	.66088	2.4958	-.82835	3.3799	10671.
Stddev	2.9541	.27434	.30542	.8075	1.0966	.0862	53.
%RSD	300.18	60.163	46.214	32.352	132.38	2.5499	.50048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	189.82
Stddev	3.20
%RSD	1.6843

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8960.5	7202.3	76233.	9983.7
Stddev	14.4	5.9	529.	66.8
%RSD	.16101	.08214	.69393	.66938

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.125%	90.896%	91.760%	100.07%
Range				

Sample Name: CCV Acquired: 6/29/2012 17:13:16 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1036.0	26227.	506.67	5164.5	2042.5	1955.4	50224.	511.7
Stddev	1.0	235.	2.55	14.5	19.9	14.8	460.	1.7
%RSD	.09339	.89559	.50398	.27994	.97311	.75537	.91541	.3375

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1971.2	1956.4	2045.8	25824.	50903.	4979.5	48207.	1961.7
Stddev	4.2	4.6	.5	266.	399.	33.3	328.	10.0
%RSD	.21169	.23507	.02600	1.0312	.78401	.66786	.68133	.50772

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2013.3	52070.	1962.2	488.17	508.3	511.36	4940.7	5097.4
Stddev	5.2	313.	5.1	2.41	3.8	1.91	11.3	28.8
%RSD	.25972	.60040	.26060	.49395	.7418	.37353	.22943	.56551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 17:13:16 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	998.92	1963.9	1951.9	5403.5	4858.7
Stddev	1.82	16.7	4.7	31.3	29.7
%RSD	.18185	.84943	.24062	.57848	.61187

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8772.7	7199.0	75888.	9763.6
Stddev	4.1	14.4	299.	51.8
%RSD	.04694	.19983	.39427	.53012

Sample Name: CCB Acquired: 6/29/2012 17:17:12 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23271	-16.284	.83282	12.264	.77361	.19020	6.5329	-.0112
Stddev	.26205	11.804	.33700	1.748	.03480	.04611	3.6166	.0791
%RSD	112.61	72.485	40.464	14.252	4.4987	24.245	55.359	704.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07977	.34651	1.0015	2.7545	-168.72	1.5173	11.700	.16409
Stddev	.10991	.04938	.7466	.3745	8.39	.8833	8.367	.05478
%RSD	137.78	14.251	74.549	13.597	4.9748	58.215	71.508	33.384

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39459	17.522	-.09392	-.40828	-2.244	.74185	.19329	1.3256
Stddev	.16739	3.667	.15258	.55250	2.114	1.0605	.21210	.3488
%RSD	42.423	20.927	162.45	135.32	94.21	142.95	109.73	26.309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 17:17:12 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.72709	2.2104	-.15398	-21.692	1.4065
Stddev	.03522	.7200	.00508	2.548	3.2189
%RSD	4.8437	32.573	3.3016	11.746	228.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9460.9	7390.1	77525.	9864.7
Stddev	12.6	8.5	130.	16.1
%RSD	.13288	.11490	.16723	.16352

Sample Name: 240-12553-g-1-a Acquired: 6/29/2012 17:21:01 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca31179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.22991	-10.267	-0.57088	31.469	80.996	-0.00397	55116.	.3171
Stddev	.13642	14.192	.70838	.278	.119	.02472	59.	.1822
%RSD	59.334	138.23	124.09	.88289	.14666	622.44	.10768	57.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.01754	1.1418	3.5953	1.0804	2435.0	-0.36256	29657.	.28450
Stddev	.03180	.2200	.4234	1.3361	23.4	.38848	77.	.01538
%RSD	181.32	19.265	11.777	123.67	.96045	107.15	.26027	5.4071

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.04289	8978.4	.79681	2.1888	-2.697	-0.70796	-0.45791	-0.27902
Stddev	.10251	10.4	.10391	.9300	1.255	1.3669	.41858	.09963
%RSD	239.02	.11579	13.041	42.488	46.54	193.07	91.410	35.708

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12553-g-1-a Acquired: 6/29/2012 17:21:01 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.1275	-1.3183	7.5755	6330.8	79.981
Stddev	.3626	3.7865	.1091	16.4	1.584
%RSD	32.157	287.23	1.4407	.25876	1.9804

SiO₂

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9210.1	7346.0	76823.	9992.3
Stddev	22.8	18.6	81.	43.2
%RSD	.24719	.25256	.10603	.43242

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.607%	92.709%	92.470%	100.16%
Range				

Sample Name: 240-12553-h-2-a Acquired: 6/29/2012 17:24:46 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34117	6.9447	.99096	14.404	188.03	-.04716	52441.	.1633
Stddev	.35176	39.195	1.1292	.444	.57	.04275	67.	.1192
%RSD	103.10	564.39	113.95	3.0840	.30437	90.632	.12759	73.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12903	1.1467	2.8534	2.3149	1355.9	-.11917	28831.	.14182
Stddev	.05105	.0538	.3619	.2758	42.2	.98075	42.	.01213
%RSD	39.563	4.6895	12.684	11.913	3.1119	822.97	.14663	8.5539

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02258	5355.3	-.01101	2.1600	-2.572	1.9420	-.22200	-.18700
Stddev	.16883	14.2	.18330	.4215	1.437	.9987	.07574	.24123
%RSD	747.56	.26437	1664.6	19.515	55.88	51.427	34.115	129.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12553-h-2-a Acquired: 6/29/2012 17:24:46 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4297	1.4593	7.2756	5425.3	55.295
Stddev	.1312	2.9004	.0314	15.8	2.184
%RSD	9.1783	198.75	.43157	.29063	3.9488

SiO2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9189.4	7306.8	77035.	10048.
Stddev	12.6	6.3	130.	24.
%RSD	.13665	.08597	.16842	.24116

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.401%	92.214%	92.725%	100.72%
Range				

Sample Name: 240-12553-g-3-a Acquired: 6/29/2012 17:28:33 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01234	-20.338	.75423	7.8582	368.62	-.06559	34704.	.1037
Stddev	.23036	20.040	1.1221	.4531	.68	.02768	109.	.1150
%RSD	1866.6	98.534	148.78	5.7660	.18378	42.204	.31514	110.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06532	.88306	1.7578	22.833	452.47	-.73413	19628.	.44266
Stddev	.12633	.06045	.7171	1.546	21.04	.83371	65.	.02293
%RSD	193.38	6.8452	40.798	6.7728	4.6511	113.56	.33363	5.1790

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10599	2457.4	-.04456	-.83064	-2.133	.58222	-.72025	-.24025
Stddev	.06581	13.2	.09009	.59395	2.728	1.3582	.52899	.08344
%RSD	62.091	.53891	202.18	71.505	127.9	233.29	73.446	34.731

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12553-g-3-a Acquired: 6/29/2012 17:28:33 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.0228	1.2077	4.2792	4419.4	43.566
Stddev	.5028	2.4181	.0304	13.5	5.173
%RSD	24.858	200.23	.70987	.30435	11.874

SiO2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9357.8	7401.9	78314.	10008.
Stddev	17.6	17.8	345.	67.
%RSD	.18805	.24021	.44068	.66969

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.076%	93.415%	94.264%	100.32%
Range				

Sample Name: 240-12562-j-1-a Acquired: 6/29/2012 17:32:19 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09333	88.524	4.7041	12648.	36.201	F 5119.5
Stddev	.39434	23.132	1.3432	64.	.132	36.9
%RSD	422.54	26.130	28.554	.50655	.36386	.71985

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4000.0
Low Limit						-500000.

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	200240.	1.765	39.940	1.6828	75.027	38.343
Stddev	1818.	.219	.057	.2879	.922	1.688
%RSD	.90798	12.38	.14269	17.106	1.2292	4.4012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25082.	311.69	176440.	197.58	193.28	F 537200.
Stddev	178.	3.73	1589.	.41	1.19	9955.
%RSD	.71164	1.1965	.90054	.20732	.61473	1.8531

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12562-j-1-a Acquired: 6/29/2012 17:32:19 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	391.97	-1.0326	-15.65	4.2271	.07493	.23959
Stddev	2.55	.7584	1.22	1.4794	.43471	.17261
%RSD	.65025	73.452	7.785	34.998	580.12	72.041

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.8103	1.2630	40.272	4579.6	5792.8
Stddev	.5261	3.2780	.257	61.8	61.2
%RSD	18.721	259.54	.63839	1.3500	1.0565

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8153.6	6808.3	71942.	9687.5
Stddev	58.6	48.1	148.	30.7
%RSD	.71883	.70607	.20617	.31647

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.099%	85.924%	86.595%	97.104%
Range				

Sample Name: 240-12562-j-2-a Acquired: 6/29/2012 17:36:29 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19259	54.937	1.2976	5321.6	76.798	340.64	103760.
Stddev	.52591	29.853	1.7724	124.0	.299	.46	1117.
%RSD	273.07	54.341	136.59	2.3305	.38895	.13608	1.0760

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5111	1.0578	9.7117	11.073	59.682	6203.2	89.963
Stddev	.1421	.1404	.1463	.928	1.978	28.7	.510
%RSD	27.80	13.272	1.5065	8.3854	3.3143	.46207	.56644

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46026.	5.1544	96.674	284230.	8.8891	-.74762	-4.669
Stddev	35.	.0510	2.459	2377.	.4597	.94362	.820
%RSD	.07626	.98876	2.5432	.83634	5.1719	126.22	17.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12562-j-2-a Acquired: 6/29/2012 17:36:29 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18919	-.27881	.36292	2.2683	.52694	4.9447	4870.7
Stddev	.74343	.13528	.04806	.6519	2.4559	.2087	15.0
%RSD	392.96	48.521	13.242	28.740	466.06	4.2208	.30712

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	5903.0
Stddev	6.8
%RSD	.11507

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8789.8	7125.2	74018.	9813.2
Stddev	144.5	116.2	215.	26.7
%RSD	1.6441	1.6312	.29057	.27221

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.427%	89.923%	89.094%	98.364%
Range				

Sample Name: 240-12605-h-2-a Acquired: 6/29/2012 17:40:31 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26993	10.058	1.7982	43.152	123.61	.16165	61996.	.1994
Stddev	.12256	25.658	.6346	1.859	.38	.09781	84.	.1527
%RSD	45.405	255.10	35.292	4.3072	.31007	60.508	.13518	76.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05285	1.8846	3.9286	1.5565	2662.0	.65240	31813.	.81182
Stddev	.44908	.2101	.6312	1.0379	40.8	1.5944	78.	.02953
%RSD	849.80	11.150	16.068	66.679	1.5324	244.40	.24530	3.6376

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12559	5635.0	.81358	.13312	-1.737	.54054	-.26739	-.34895
Stddev	.20777	16.6	.42799	.14502	1.097	.42199	.27807	.08941
%RSD	165.43	.29423	52.606	108.94	63.14	78.068	103.99	25.622

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12605-h-2-a Acquired: 6/29/2012 17:40:31 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.6603	-.02627	5.4758	5198.2	102.84
Stddev	1.2485	3.0348	.0846	16.8	1.76
%RSD	75.199	11554.	1.5456	.32396	1.7137

Si⁰²

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9160.7	7287.4	76816.	9931.9
Stddev	97.9	78.4	220.	37.4
%RSD	1.0682	1.0754	.28633	.37670

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.116%	91.970%	92.462%	99.554%
Range				

Sample Name: 240-12605-h-3-a Acquired: 6/29/2012 17:44:17 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	<u>B_1826</u>	<u>Ba4554</u>	Be3130	<u>Ca3179</u>	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03288	-2.9097	.60818	20.387	49.639	-.02803	38839.	.0431
Stddev	.41992	19.559	.76346	1.056	.215	.05493	162.	.0978
%RSD	1277.1	672.18	125.53	5.1798	.43315	195.96	.41688	226.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	<u>Cr2677</u>	Cu3273	<u>Fe2599</u>	<u>K_7664</u>	<u>Li6707</u>	<u>Mg2790</u>	<u>Mn2576</u>
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30472	1.0172	3.2509	.93026	827.10	1.7504	21321.	.20246
Stddev	.16141	.3589	.2779	3.0218	24.06	1.3074	115.	.02581
%RSD	52.971	35.287	8.5471	324.83	2.9090	74.693	.53961	12.747

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	<u>Na5895</u>	<u>Ni2316</u>	<u>Pb2203</u>	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10001	2804.0	.10154	-.02588	-3.707	.00930	-.30748	-.30042
Stddev	.09961	14.6	.40881	.99117	2.076	.33114	.46475	.22648
%RSD	99.596	.51919	402.60	3829.6	55.99	3560.5	151.15	75.387

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12605-h-3-a Acquired: 6/29/2012 17:44:17 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.9604	-1.0745	4.0137	4746.9	50.347
Stddev	.5234	1.0756	.0456	42.3	1.561
%RSD	26.697	100.10	1.1348	.89145	3.1002

SiO2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9280.9	7359.0	77242.	9981.2
Stddev	30.4	28.5	335.	47.5
%RSD	.32736	.38671	.43354	.47569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.311%	92.874%	92.974%	100.05%
Range				

Sample Name: 240-12606-i-1-a Acquired: 6/29/2012 17:48:03 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *Tal-Al Sb TL*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02866	-.55057	.68912	70.953	313.97	-.10993	131530.
Stddev	.25911	6.0325	.10116	.277	.75	.02488	1351.
%RSD	904.13	1095.7	14.680	.39002	.24042	22.637	1.0271

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3813	1.7263	1.6893	2.7761	490.61	1942.7	1.1132
Stddev	.0976	.1636	.3095	.8383	.70	28.7	1.5736
%RSD	25.61	9.4776	18.322	30.196	.14267	1.4751	141.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38482.	1048.4	4.0205	16902.	5.6964	-.22824	-5.188
Stddev	175.	78.8	.0815	64.	.1482	.78834	1.229
%RSD	.45548	7.5143	2.0276	.37955	2.6022	345.39	23.69

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12606-i-1-a Acquired: 6/29/2012 17:48:03 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.92200	-.42135	-.45547	2.4645	1.1669	2.4946	10793.
Stddev	1.6155	.22491	.09694	.4779	2.3129	.0405	19.
%RSD	175.21	53.378	21.282	19.390	198.21	1.6250	.18008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	180.67
Stddev	3.73
%RSD	2.0652

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8922.8	7174.4	75270.	9834.9
Stddev	2.1	7.6	4458.	70.8
%RSD	.02409	.10536	5.9231	.72033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.750%	90.543%	90.601%	98.582%
Range				

Sample Name: 240-12606-i-2-a Acquired: 6/29/2012 17:51:56 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Tal-Al Sb Tr

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20197	22.067	-.12567	6.2054	1.5086	-.00384	170.58	-.0091
Stddev	.14581	16.737	.52517	.1433	.2668	.02296	6.28	.1677
%RSD	72.196	75.845	417.90	2.3091	17.684	597.84	3.6791	1845.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1078	1.6423	1.4235	19.204	-293.87	-.63964	37.580	1.9661
Stddev	.1000	.3929	.2614	1.812	13.89	.84153	9.935	.0426
%RSD	9.0260	23.923	18.362	9.4360	4.7262	131.56	26.438	2.1659

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.30568	83.497	.75819	-.00405	-3.543	2.1551	-.51949	-.29651
Stddev	.24325	5.792	.17811	.33517	2.326	.8151	.11464	.24925
%RSD	79.574	6.9372	23.492	8265.7	65.67	37.822	22.068	84.061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12606-i-2-a Acquired: 6/29/2012 17:51:56 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2799	2.0451	14.882	-.69541	.40694
Stddev	.2526	2.3993	.081	4.3823	2.7265
%RSD	19.734	117.32	.54304	630.18	670.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9502.7	7462.5	78553.	10045.
Stddev	14.4	16.7	186.	80.
%RSD	.15143	.22365	.23633	.80011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.518%	94.180%	94.553%	100.69%
Range				

Sample Name: 240-12507-k-6-a@100 Acquired: 6/29/2012 17:55:44 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17455	-12.894	.22738	19.014	52.954	-.05042	17732.
Stddev	.51767	42.208	.45992	.440	1.299	.04034	423.
%RSD	296.57	327.36	202.27	2.3121	2.4534	80.010	2.3877

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0945	-.13328	.41730	2.1901	72.891	254.05	15.781
Stddev	.0191	.12900	.13549	.8491	1.972	63.89	.768
%RSD	20.26	96.794	32.469	38.771	2.7054	25.149	4.8668

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4775.5	13.106	-.12886	131900.	.11468	-.14771	-3.326
Stddev	117.8	.010	.11280	3509.	.40390	.50624	2.272
%RSD	2.4662	.07894	87.536	2.6601	352.20	342.73	68.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12507-k-6-a@100 Acquired: 6/29/2012 17:55:44 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0579	-.43706	-.28079	1.0374	.64499	1.0471	16.169
Stddev	1.0798	.35182	.07248	.6486	1.9363	.0615	5.957
%RSD	102.06	80.496	25.813	62.519	300.21	5.8762	36.841

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	775.81
Stddev	22.86
%RSD	2.9461

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8994.0	7220.0	75257.	9791.7
Stddev	114.6	100.1	66.	182.1
%RSD	1.2739	1.3867	.08809	1.8595

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.458%	91.120%	90.585%	98.148%
Range				

Sample Name: CCV Acquired: 6/29/2012 17:59:37 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1030.1	25783.	505.79	5187.3	2033.2	1964.1	49443.	506.1
Stddev	3.1	43.	.98	11.4	4.1	5.4	124.	1.0
%RSD	.29906	.16752	.19421	.22053	.20405	.27708	.25033	.1920

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1969.1	1929.2	2034.1	25301.	50662.	5005.9	48412.	1960.3
Stddev	3.0	5.0	5.6	53.	110.	13.6	225.	19.1
%RSD	.15333	.25834	.27535	.20765	.21736	.27248	.46555	.97679

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1994.8	52093.	1958.8	483.68	499.1	509.20	4953.1	5158.3
Stddev	4.6	128.	3.9	2.31	.9	1.43	12.2	53.6
%RSD	.23288	.24573	.20000	.47807	.1797	.28140	.24625	1.0392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 17:59:37 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	998.14	1946.5	1948.7	5281.0	4894.5
Stddev	1.78	2.3	6.2	84.3	26.5
%RSD	.17833	.11760	.31633	1.5967	.54143

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8669.2	7156.8	74957.	9620.9
Stddev	7.7	14.7	347.	27.8
%RSD	.08908	.20491	.46306	.28907

Sample Name: CCB Acquired: 6/29/2012 18:03:32 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64148	2.7283	-.66200	14.718	.75767	.61139	37.208	.1052
Stddev	.36340	19.552	1.3783	1.393	.18506	.05740	4.458	.1978
%RSD	56.651	716.62	208.20	9.4650	24.425	9.3880	11.981	188.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17639	.71319	2.8256	10.604	-296.47	-3.0288	30.862	.66750
Stddev	.13206	.09640	.6088	2.511	43.48	.8899	2.811	.05010
%RSD	74.868	13.517	21.546	23.684	14.666	29.381	9.1094	7.5063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.82359	55.211	.16777	1.0214	-2.475	2.4874	1.1246	1.9361
Stddev	.08069	15.263	.45602	.9354	.248	.8416	.5613	.1017
%RSD	9.7977	27.644	271.81	91.587	10.01	33.834	49.908	5.2505

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 18:03:32 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.56903	.51422	.29626	-13.634	5.0114
Stddev	.99055	1.8603	.08594	6.036	2.4037
%RSD	174.08	361.76	29.008	44.273	47.964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9376.9	7356.9	77248.	9696.9
Stddev	40.2	24.6	140.	22.9
%RSD	.42906	.33436	.18160	.23658

Sample Name: Ib 240-48948/1-b Acquired: 6/29/2012 18:07:21 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	<u>Ag</u> 3280	Al3082	<u>As</u> 1890	B_1826	<u>Ba</u> 4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44910	-5.2353	.91808	7.0787	1.2031	.15071	250.21
Stddev	.34810	22.047	1.0422	.3794	.1070	.02063	2.12
%RSD	77.510	421.12	113.52	5.3603	8.8939	13.688	.84648

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	<u>Cd</u> 2288	Co2286	<u>Cr</u> 2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0116	-.17371	1.7614	3.2459	21.976	-272.09	-4.6852
Stddev	.0460	.15053	.2265	.6786	.614	38.28	.5856
%RSD	395.8	86.659	12.858	20.908	2.7934	14.071	12.499

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	<u>Pb</u> 2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.216	1.6196	.23569	F 14639.	.77697	-.45519	-1.969
Stddev	1.968	.0350	.16878	69.	.31752	.58723	.310
%RSD	4.0822	2.1618	71.613	.46991	40.866	129.01	15.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				1000.0			
Low Limit				-1000.0			

Sample Name: lb 240-48948/1-b Acquired: 6/29/2012 18:07:21 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.97537	24.453	.56809	.33022	-.02983	12.444	-6.6204
Stddev	.84818	.052	.20966	.30317	.78319	.143	3.4776
%RSD	86.959	.21289	36.905	91.810	2626.0	1.1517	52.528

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	F 5.5915
Stddev	.7507
%RSD	13.426

Check ?	Chk Fail
High Limit	5.0000
Low Limit	-1000.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9417.5	7385.2	76844.	9701.4
Stddev	91.8	78.9	182.	36.9
%RSD	.97479	1.0683	.23719	.38078

Sample Name: mb 240-49269/2-a Acquired: 6/29/2012 18:11:09 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-63456	-28.063	-41769	4.4672	1.2077	.08427	214.77	.0349
Stddev	.03061	14.936	1.0721	.2879	.2463	.07756	.91	.0978
%RSD	4.8233	53.224	256.68	6.4453	20.391	92.036	.42195	280.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17589	3.5181	3.2780	29.650	-353.77	-5.2057	49.393	.75003
Stddev	.06393	.0500	1.0232	1.213	14.17	1.7453	5.775	.01428
%RSD	36.346	1.4202	31.213	4.0899	4.0067	33.527	11.691	1.9036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06658	54.150	.43248	.13559	-3.195	.71236	16.968	.09507
Stddev	.30764	6.328	.11976	.98204	.945	1.5888	.153	.01621
%RSD	462.06	11.686	27.693	724.28	29.57	223.03	.90162	17.051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-49269/2-a Acquired: 6/29/2012 18:11:09 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.99847	1.1719	11.220	3.6497	3.8039
Stddev	.52205	2.0130	.031	6.7588	2.8819
%RSD	52.285	171.77	.27536	185.19	75.762

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9344.0	7357.8	76900.	9708.1
Stddev	59.0	48.9	243.	33.2
%RSD	.63159	.66423	.31563	.34214

Sample Name: lcs 240-49269/3-a Acquired: 6/29/2012 18:14:58 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.337	1923.6	1812.8	955.32	2072.9	45.696	F 218.35
Stddev	.731	23.9	31.2	16.14	1.9	.093	.64
%RSD	1.4820	1.2404	1.7187	1.6890	.09106	.20371	.29449

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							50000.
Range							-20.500%

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.04	457.96	185.54	243.94	969.18	F -344.46	972.85
Stddev	.80	7.87	1.54	2.26	3.54	29.00	2.43
%RSD	1.741	1.7189	.82777	.92530	.36491	8.4205	.24996

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						50000.	
Range						-20.500%	

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 44.569	481.96	930.54	F 54.940	454.87	466.49	476.8
Stddev	15.857	2.26	16.32	6.969	8.00	9.36	11.2
%RSD	35.580	.46850	1.7534	12.685	1.7594	2.0060	2.338

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value	50000.			50000.			
Range	-20.500%			-20.500%			

Sample Name: lcs 240-49269/3-a Acquired: 6/29/2012 18:14:58 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1802.4	1861.7	993.74	1840.6	461.44	454.00	998.54
Stddev	33.8	31.4	5.30	30.6	4.15	7.98	19.59
%RSD	1.8755	1.6860	.53285	1.6622	.89910	1.7575	1.9613

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	962.43
Stddev	2.74
%RSD	.28456

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9237.9	7348.9	77214.	9635.5
Stddev	106.4	83.0	451.	6.4
%RSD	1.1521	1.1295	.58434	.06693

Sample Name: 240-12575-a-1-I Acquired: 6/29/2012 18:18:36 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: 0.2610 L

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23391	.50921	-.25316	65.005	1.6490	-.06376	4352.7	.8486
Stddev	.18270	9.4388	1.0756	.424	.4274	.03762	77.4	.0278
%RSD	78.110	1853.6	424.89	.65276	25.918	58.997	1.7777	3.280

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16849	3.8873	21.136	168.44	459.38	-6.2625	66.968	7.7702
Stddev	.13104	.0554	.450	2.90	39.62	.3382	11.929	.0594
%RSD	77.771	1.4247	2.1308	1.7226	8.6248	5.3999	17.813	.76394

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	192.99	768.21	.88966	7.5088	-3.794	3.5656	18.939	.44146
Stddev	.60	16.38	.04896	.1409	1.695	1.0969	.070	.10341
%RSD	.31330	2.1319	5.5034	1.8772	44.66	30.763	.37034	23.425

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12575-a-1-I Acquired: 6/29/2012 18:18:36 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.18391	.74934	1728.6	24.648	4.4144
Stddev	.27200	2.0541	5.1	.806	.4827
%RSD	147.90	274.12	.29338	3.2685	10.934

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9546.5	7449.4	79955.	9944.5
Stddev	30.3	30.6	648.	207.4
%RSD	.31700	.41079	.81079	2.0855

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.953%	94.015%	96.240%	99.680%
Range				

Sample Name: SD 240-12575-a-1-l@5 Acquired: 6/29/2012 18:22:23 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.66861	-1.3016	.30224	15.486	.46133	-.03153	923.15	.2447
Stddev	.15097	12.243	1.1749	.446	.08182	.04185	17.01	.0433
%RSD	22.580	940.59	388.74	2.8786	17.735	132.72	1.8421	17.69

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08713	1.0046	6.3049	38.161	-207.86	-6.3538	14.009	1.7464
Stddev	.13257	.1611	.3902	2.060	21.59	.8570	11.850	.0379
%RSD	152.15	16.032	6.1896	5.3974	10.387	13.487	84.589	2.1722

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.278	139.98	-.31846	2.3037	-3.997	1.2212	3.6859	-.15256
Stddev	.698	3.69	.17713	.6463	1.312	2.3742	.1223	.19188
%RSD	1.7331	2.6368	55.621	28.055	32.82	194.41	3.3177	125.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-12575-a-1-l@5 Acquired: 6/29/2012 18:22:23 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.70496	1.0657	368.53	-12.147	3.8309
Stddev	.13611	.8465	5.14	3.434	4.3073
%RSD	19.307	79.424	1.3951	28.267	112.44

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9699.8	7594.2	79172.	10121.
Stddev	121.5	90.8	1286.	161.
%RSD	1.2525	1.1960	1.6237	1.5867

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.478%	95.841%	95.297%	101.45%
Range				

Sample Name: 240-12575-a-1-m ms@5 Acquired: 6/29/2012 18:26:11 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	215.56	447.04	1043.4	228.75	11276.	10.310	879.74	213.7
Stddev	6.32	27.20	6.1	1.16	252.	.064	2.22	1.5
%RSD	2.9317	6.0848	.58609	.50502	2.2345	.61776	.25203	.7177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103.38	1031.7	59.144	246.07	-201.05	-4.8185	16.339	106.40
Stddev	.63	27.7	1.250	2.52	40.75	.7483	6.342	3.03
%RSD	.61348	2.6891	2.1132	1.0250	20.267	15.530	38.815	2.8509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	248.89	134.57	102.92	1070.5	102.9	210.01	419.24	-.21461
Stddev	1.36	5.77	1.14	7.3	1.3	1.26	2.90	.15309
%RSD	.54699	4.2874	1.1038	.68402	1.289	.59869	.69128	71.335

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12575-a-1-m ms@5 Acquired: 6/29/2012 18:26:11 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	410.78	103.88	447.33	-7.0213	4.4126
Stddev	.93	2.03	3.09	12.233	4.5362
%RSD	.22759	1.9579	.69166	174.22	102.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9619.9	7546.1	81140.	10055.
Stddev	55.8	51.7	1402.	48.
%RSD	.57972	.68459	1.7277	.47589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.684%	95.234%	97.667%	100.79%
Range				

Sample Name: 240-12575-a-1-nmsd@5 Acquired: 6/29/2012 18:29:59 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	209.89	427.51	988.39	222.44	10955.	9.9619	376.62	205.6
Stddev	3.19	33.71	12.92	2.50	57.	.1514	1.96	2.1
%RSD	1.5181	7.8847	1.3072	1.1223	.51991	1.5196	.52025	1.007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99.615	1015.4	56.085	235.66	-223.10	-4.6595	4.6656	104.71
Stddev	1.184	16.3	1.403	2.00	7.62	1.6671	9.5998	2.11
%RSD	1.1889	1.6060	2.5007	.85011	3.4158	35.779	205.76	2.0175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	238.35	98.150	101.65	1026.0	98.41	205.21	402.16	-.22688
Stddev	2.61	12.481	2.34	12.3	1.61	2.01	4.66	.12701
%RSD	1.0968	12.716	2.2980	1.1965	1.638	.98152	1.1596	55.982

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12575-a-1-nmsd@5 Acquired: 6/29/2012 18:29:59 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	399.19	98.392	241.42	.70309	3.2563
Stddev	3.72	1.391	2.59	4.8119	2.4541
%RSD	.93147	1.4139	1.0738	684.40	75.366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9569.9	7525.9	79181.	10086.
Stddev	84.3	71.3	1215.	38.
%RSD	.88062	.94730	1.5345	.37425

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.186%	94.980%	95.308%	101.10%
Range				

Sample Name: lb 240-49138/1-d Acquired: 6/29/2012 18:33:47 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-42953	6.3679	3.4206	13.881	F 7.3783	-.02453
Stddev	.07541	26.513	2.0229	.220	.4542	.02792
%RSD	17.555	416.35	59.137	1.5823	6.1560	113.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					5.0000	
Low Limit					-1000.0	

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101.95	.0479	-1.16590	1.8804	3.6227	20.598
Stddev	.30	.1556	.14273	.2231	.1787	2.526
%RSD	.29753	325.2	86.029	11.865	4.9342	12.263

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	436.83	7.5815	19.469	.90390	-.01651	F 1158000.
Stddev	45.70	1.0776	8.697	.03868	.20280	61810.
%RSD	10.461	14.213	44.669	4.2793	1228.5	5.3376

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						1000.0
Low Limit						-1000.0

Sample Name: lb 240-49138/1-d Acquired: 6/29/2012 18:33:47 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.6153	.94287	-3.058	1.7902	.76606	-.15485
Stddev	3.3095	.48683	2.850	2.2003	.49963	.17169
%RSD	34.419	51.633	93.20	122.90	65.220	110.88

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.28777	2.8745	6.8849	83.041	1.8240
Stddev	.36409	2.2894	1.2436	9.830	1.8759
%RSD	126.52	79.645	18.063	11.837	102.85

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8068.8	6762.9	69659.	9400.5
Stddev	29.3	33.1	126.	16.1
%RSD	.36362	.48925	.18149	.17175

Sample Name: mb 240-49289/2-a Acquired: 6/29/2012 18:37:44 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12822	.04163	.31725	2.0579	3.1361	-.00996	210.24	-.0517
Stddev	.25596	28.795	1.0283	.1022	.2026	.01142	1.35	.1207
%RSD	199.62	69167.	324.13	4.9648	6.4588	114.67	.64097	233.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26453	.43072	3.7329	8.3784	-123.57	.56135	37.941	.62341
Stddev	.13020	.24999	1.0837	1.1087	24.36	.69872	6.471	.01106
%RSD	49.219	58.041	29.031	13.233	19.716	124.47	17.055	1.7746

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.14440	996.81	4.4355	.76049	-3.186	2.1624	-.18003	-.13856
Stddev	.20760	75.33	.9376	.53778	1.044	1.5413	.13590	.05297
%RSD	143.77	7.5569	21.138	70.715	32.77	71.275	75.488	38.226

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-49289/2-a Acquired: 6/29/2012 18:37:44 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.60102	-.58247	19.810	-20.553	3.3155
Stddev	1.1935	1.8004	.446	3.529	2.0244
%RSD	198.57	309.10	2.2515	17.170	61.060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9311.6	7351.4	76836.	9550.4
Stddev	9.0	5.4	201.	75.6
%RSD	.09666	.07385	.26147	.79112

Sample Name: lcs 240-49289/3-a Acquired: 6/29/2012 18:41:32 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.505	2127.7	2106.7	1057.6	2184.1	49.273
Stddev	1.186	8.8	8.6	6.6	15.6	.296
%RSD	2.1752	.41332	.40844	.62848	.71292	.60167

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 336.84	51.87	508.03	199.80	266.42	1048.9
Stddev	5.02	.19	3.49	.83	.78	9.9
%RSD	1.4905	.3641	.68620	.41585	.29448	.94556

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50000.					
Range	-20.500%					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 718.69	1063.4	F 69.214	518.93	987.92	F 1195500.
Stddev	43.13	9.7	4.260	1.40	6.44	45652.
%RSD	6.0016	.90751	6.1544	.27005	.65217	3.8187

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value	50000.		50000.			50000.
Range	-20.500%		-20.500%			20.500%

Sample Name: lcs 240-49289/3-a Acquired: 6/29/2012 18:41:32 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	510.35	483.15	529.2	2109.1	2098.1	1075.6
Stddev	4.43	3.12	5.7	15.9	17.6	2.7
%RSD	.86878	.64560	1.073	.75229	.83790	.25335

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1953.7	501.31	551.65	F 1223.5	1033.2
Stddev	16.6	4.80	4.79	27.1	10.4
%RSD	.85156	.95656	.86899	2.2130	1.0030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				1000.0	
Range				20.500%	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8151.6	6929.3	70642.	9284.7
Stddev	48.1	29.8	237.	98.5
%RSD	.59048	.42982	.33616	1.0610

Sample Name: CCV Acquired: 6/29/2012 18:45:20 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1018.9	26551.	503.92	5123.4	2050.1	2003.0	50735.	512.7
Stddev	8.1	275.	1.59	11.1	21.6	21.3	524.	2.2
%RSD	.79849	1.0347	.31575	.21615	1.0525	1.0631	1.0319	.4250

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1982.2	1930.8	2017.0	25793.	52087.	5146.6	49896.	1997.9
Stddev	3.3	17.9	15.5	281.	522.	57.1	569.	24.6
%RSD	.16796	.92757	.76845	1.0881	1.0016	1.1103	1.1406	1.2327

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1991.7	52969.	1968.1	489.61	511.5	506.72	4991.7	5100.4
Stddev	6.8	439.	2.3	.94	1.6	1.50	2.2	128.1
%RSD	.34075	.82798	.11736	.19283	.3214	.29609	.04320	2.5122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 18:45:20 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1011.1	1986.9	1971.5	5403.5	5011.5
Stddev	1.7	20.5	.5	34.8	53.3
%RSD	.16364	1.0304	.02728	.64421	1.0635

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8705.9	7222.3	76022.	9416.7
Stddev	6.3	18.2	622.	91.6
%RSD	.07214	.25142	.81829	.97239

Sample Name: CCB Acquired: 6/29/2012 18:49:15 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.55382	7.4156	-.55645	13.395	.75035	.47378	11.153	.0796
Stddev	.59234	15.938	1.7318	1.255	.14292	.03224	1.126	.1313
%RSD	106.96	214.93	311.22	9.3652	19.048	6.8050	10.097	165.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03356	.79143	3.5203	5.5148	-201.52	2.7070	12.501	.50061
Stddev	.26519	.55931	.6378	1.4971	31.39	1.4669	9.301	.00557
%RSD	790.10	70.671	18.117	27.148	15.579	54.188	74.402	1.1126

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.71600	394.23	.14922	.01788	-.5397	1.3631	1.1498	2.2367
Stddev	.16406	12.91	.09014	1.0655	2.679	.5113	.3992	.3587
%RSD	22.913	3.2748	60.410	5960.6	496.4	37.513	34.721	16.036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/29/2012 18:49:15 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.42870	2.7400	.19360	-21.632	3.7734
Stddev	.61308	1.8734	.06268	6.999	1.6218
%RSD	143.01	68.372	32.375	32.355	42.981

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9471.2	7468.8	77895.	9479.5
Stddev	10.5	9.3	317.	21.6
%RSD	.11059	.12406	.40687	.22754

Sample Name: 240-12635-b-1-e Acquired: 6/29/2012 18:53:04 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-85459	11.626	6.1683	1060.9	124.77	.15065
Stddev	.55309	19.275	.0332	3.0	.12	.00890
%RSD	64.720	165.80	.53849	.28557	.09719	5.9090

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2347.8	-.3982	-1.0836	11.381	4.8803	F 715510.
Stddev	5.3	.2414	.1998	.304	.8079	5362.
%RSD	.22438	60.62	18.442	2.6730	16.554	.74945

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	511.92	17.756	2290.1	4541.9	-1.2961	F 1217600.
Stddev	6.45	5.187	9.1	17.7	.1411	25907.
%RSD	1.2591	29.212	.39803	.38993	10.885	2.1277

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12635-b-1-e Acquired: 6/29/2012 18:53:04 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.148	.53030	-3.049	8.0769	5.2448	2.3109
Stddev	.497	1.0642	.644	.9559	.2921	.1207
%RSD	1.2691	200.68	21.13	11.835	5.5697	5.2218

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	6.0717	-4.8830	245.95	12227.	23.518
Stddev	.6091	1.5559	.22	15.	2.015
%RSD	10.032	31.864	.09012	.12522	8.5671

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7915.3	6966.5	70567.	9418.2
Stddev	4.2	3.8	179.	76.1
%RSD	.05344	.05499	.25396	.80838

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.729%	87.920%	84.939%	94.404%
Range				

Sample Name: SD 240-12635-b-1-e@5 Acquired: 6/29/2012 18:57:12 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14788	3.1046	2.2191	229.42	26.229	.02977	487.37
Stddev	.36498	13.048	1.3142	.09	.215	.03108	1.04
%RSD	246.81	420.27	59.223	.03961	.82114	104.42	.21362

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0398	-.32175	2.5795	3.6555	155130.	18.238	13.564
Stddev	.0512	.06298	.2430	.1991	87.	16.919	.214
%RSD	128.7	19.576	9.4211	5.4473	.05623	92.767	1.5764

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	482.23	958.94	-.55237	288870.	7.2858	-1.0204	-.2144
Stddev	10.75	15.08	.06696	582.	.1827	.2763	.4557
%RSD	2.2283	1.5721	12.123	.20131	2.5078	27.077	212.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SD 240-12635-b-1-e@5 Acquired: 6/29/2012 18:57:12 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6209	.77846	.33273	2.9808	-.19035	50.590	2553.7
Stddev	.7926	.26236	.07549	.0816	1.5191	.101	8.4
%RSD	30.242	33.703	22.689	2.7384	798.07	.19879	.32943

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	5.5884
Stddev	3.0048
%RSD	53.768

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8942.2	7349.1	76308.	9780.0
Stddev	4.1	5.7	768.	19.4
%RSD	.04565	.07729	1.0059	.19852

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.942%	92.748%	91.851%	98.031%
Range				

Sample Name: 240-12635-b-1-f ms@5 Acquired: 6/29/2012 19:01:14 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	215.42	422.51	1062.8	428.70	10871.	9.8029	470.49
Stddev	2.81	15.25	21.2	7.88	144.	.0657	3.88
%RSD	1.3043	3.6103	1.9910	1.8385	1.3254	.66975	.82495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	216.2	100.44	1001.7	55.556	146760.	-174.98	8.1548
Stddev	4.0	1.82	14.0	1.658	389.	66.05	1.5453
%RSD	1.847	1.8100	1.3930	2.9843	.26512	37.746	18.949

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	453.59	1000.0	201.22	282420.	106.52	1028.3	102.1
Stddev	8.49	18.3	3.44	1667.	1.75	19.6	2.3
%RSD	1.8722	1.8342	1.7100	.59021	1.6461	1.9051	2.249

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12635-b-1-f.ms@5 Acquired: 6/29/2012 19:01:14 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	219.06	419.25	.16604	402.96	99.096	149.75	2957.7
Stddev	4.06	7.27	.03332	7.79	2.521	2.95	16.7
%RSD	1.8519	1.7331	20.066	1.9344	2.5445	1.9706	.56522

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	6.5332
Stddev	1.0586
%RSD	16.204

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8850.5	7277.1	77043.	9799.6
Stddev	133.4	104.9	984.	76.8
%RSD	1.5075	1.4416	1.2772	.78389

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.030%	91.840%	92.734%	98.228%
Range				

Sample Name: 240-12635-b-1-gmsd@5 Acquired: 6/29/2012 19:05:18 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	211.97	417.53	1025.0	418.88	10755.	9.6853	469.79
Stddev	.47	22.48	5.0	2.04	84.	.0892	1.62
%RSD	.22281	5.3841	.48440	.48723	.78406	.92079	.34570

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	209.3	97.291	988.73	53.560	148290.	-172.05	8.7363
Stddev	.8	.537	4.05	.615	1382.	36.09	1.1796
%RSD	.3804	.55214	.40913	1.1481	.93225	20.974	13.502

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	452.04	1003.8	194.78	286060.	102.48	993.17	99.81
Stddev	3.11	4.8	1.17	3937.	.78	4.41	2.93
%RSD	.68802	.47908	.59998	1.3763	.76540	.44409	2.939

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12635-b-1-gmsd@5 Acquired: 6/29/2012 19:05:18 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	210.65	404.26	.12747	388.12	97.831	145.51	2973.2
Stddev	3.16	2.41	.05002	2.42	3.464	.62	21.6
%RSD	1.5019	.59650	39.239	.62405	3.5406	.42724	.72518

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	6.5390
Stddev	6.1854
%RSD	94.593

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8985.4	7368.5	76926.	9724.7
Stddev	29.5	18.7	205.	125.0
%RSD	.32867	.25436	.26636	1.2857

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.372%	92.993%	92.594%	97.476%
Range				

Sample Name: 240-12635-b-1-e@4 Acquired: 6/29/2012 19:09:22 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *NCM matrix*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15558	-15.467	1.6210	278.99	35.268	.04613	598.43
Stddev	.28480	18.077	.4717	1.28	.378	.05451	10.59
%RSD	183.06	116.88	29.101	.45918	1.0704	118.15	1.7702

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0341	-.56805	3.5435	4.1200	190570.	-96.955	12.699
Stddev	.0958	.17681	.1206	1.0038	1831.	28.305	2.216
%RSD	281.1	31.126	3.4046	24.365	.96059	29.194	17.448

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	594.06	1189.4	-.30512	364360.	9.0658	.47674	-2.633
Stddev	21.04	3.1	.04690	7051.	.3027	.34195	1.436
%RSD	3.5425	.26007	15.371	1.9352	3.3388	71.728	54.53

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12635-b-1-e@4 Acquired: 6/29/2012 19:09:22 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8281	1.0771	.25176	2.7233	-1.9412	62.753	3129.7
Stddev	1.3781	.0784	.14298	.3607	2.6734	.204	49.2
%RSD	48.728	7.2795	56.792	13.244	137.72	.32559	1.5734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	8.6753
Stddev	4.0936
%RSD	47.187

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8892.3	7346.5	75944.	9805.1
Stddev	6.7	5.7	400.	117.3
%RSD	.07560	.07821	.52626	1.1958

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.447%	92.716%	91.412%	98.282%
Range				

Sample Name: SD240-12635-b-1-e@20 Acquired: 6/29/2012 19:13:23 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44908	14.579	1.4805	56.327	8.0276	-.06347	122.27	-.1276
Stddev	.19008	18.787	.6808	.136	.3136	.02917	2.31	.1400
%RSD	42.326	128.86	45.986	.24176	3.9072	45.953	1.8856	109.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40335	.95151	3.6267	39261.	-185.35	6.5977	115.78	237.60
Stddev	.16774	.12905	.2996	128.	21.24	1.5873	11.82	.87
%RSD	41.587	13.563	8.2618	.32651	11.458	24.058	10.211	.36556

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21917	75892.	2.0013	.26309	-2.656	3.0607	.19404	-.18379
Stddev	.04890	128.	.1495	.79127	1.121	1.1611	.32811	.20743
%RSD	22.310	.16837	7.4722	300.76	42.19	37.936	169.10	112.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD240-12635-b-1-e@20 Acquired: 6/29/2012 19:13:23 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4871	2.7939	13.476	596.75	5.3295
Stddev	.3885	2.3777	.035	7.07	1.3192
%RSD	26.126	85.104	.25872	1.1849	24.753

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9290.5	7455.1	77251.	9620.6
Stddev	36.6	25.3	395.	42.0
%RSD	.39375	.33888	.51109	.43651

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.407%	94.086%	92.985%	96.433%
Range				

Sample Name: 240-12635-b-1-f ms@5 Acquired: 6/29/2012 19:17:09 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	215.56	397.71	1046.2	426.28	11081.	9.8532	457.67
Stddev	5.17	11.23	1.9	.77	50.	.0188	2.71
%RSD	2.3984	2.8225	.18157	.18047	.45530	.19068	.59300

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	<u>Cd2288</u>	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	209.4	99.708	998.85	56.856	146180.	-98.094	11.074
Stddev	1.0	.097	23.07	2.443	725.	30.280	1.019
%RSD	.4899	.09713	2.3092	4.2961	.49582	30.869	9.2010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	<u>Pb2203</u>	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	459.03	994.17	197.13	280570.	105.39	1012.0	99.32
Stddev	18.68	21.42	.49	1393.	.25	2.5	1.17
%RSD	4.0705	2.1545	.24649	.49653	.23590	.24456	1.181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12635-b-1-f ms@5 Acquired: 6/29/2012 19:17:09 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.43	416.10	-.00389	397.70	97.164	148.87	2915.6
Stddev	1.90	.19	.01885	.65	.853	.05	10.2
%RSD	.88725	.04618	484.60	.16272	.87764	.03071	.34816

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	5.0760
Stddev	4.4469
%RSD	87.607

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8927.3	7372.6	76866.	9694.5
Stddev	7.1	11.4	1207.	85.5
%RSD	.07985	.15497	1.5697	.88240

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.794%	93.045%	92.521%	97.174%
Range				

Sample Name: 240-12635-b-1-gmsd@5 Acquired: 6/29/2012 19:21:13 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.39	395.12	1022.7	426.74	10662.	9.6732	454.38
Stddev	1.49	31.61	3.8	2.67	167.	.1108	6.96
%RSD	.69291	8.0011	.37369	.62638	1.5645	1.1455	1.5327

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	203.9	97.977	984.12	55.448	144270.	-81.736	12.244
Stddev	1.1	.579	5.16	1.250	1515.	55.868	1.035
%RSD	.5630	.59114	.52427	2.2549	1.0504	68.352	8.4515

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	467.03	1004.5	193.23	282570.	129.09	989.45	95.66
Stddev	6.30	6.2	1.19	2681.	43.00	4.18	1.64
%RSD	1.3496	.61417	.61817	.94875	33.312	.42269	1.718

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12635-b-1-gmsd@5 Acquired: 6/29/2012 19:21:13 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	211.80	411.73	.02514	394.27	98.396	158.25	2862.1
Stddev	3.76	1.82	.12508	.34	1.637	17.80	36.8
%RSD	1.7751	.44138	497.62	.08684	1.6636	11.251	1.2842

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	7.3432
Stddev	3.1974
%RSD	43.543

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8863.3	7360.6	76255.	9710.9
Stddev	79.9	67.2	354.	124.8
%RSD	.90118	.91345	.46406	1.2848

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.157%	92.893%	91.786%	97.338%
Range				

Sample Name: 240-12577-a-1-j Acquired: 6/29/2012 19:25:17 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-53153	364.85	8.8681	4192.6	284.62	.61553
Stddev	.37699	12.54	.7098	15.2	.65	.05578
%RSD	70.925	3.4375	8.0044	.36232	.22909	9.0627

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66274.	5.275	12.941	7.4912	54.637	5974.7
Stddev	275.	.205	.118	.2197	.615	25.8
%RSD	.41423	3.885	.91558	2.9329	1.1253	.43161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25118.	336.96	18510.	1517.1	2.1837	F 1095100.
Stddev	223.	4.29	130.	16.9	.0887	44490.
%RSD	.88694	1.2735	.70342	1.1141	4.0597	4.0628

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12577-a-1-j Acquired: 6/29/2012 19:25:17 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63.994	172.25	1.400	1.8594	1.2276	1.3661
Stddev	.243	1.09	1.341	1.5678	.2608	.1499
%RSD	.37942	.63000	95.75	84.320	21.246	10.971

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.76964	-1.5078	1395.9	12490.	1468.7
Stddev	.29789	2.7199	5.7	96.	11.3
%RSD	38.705	180.38	.41071	.76830	.77216

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8239.5	7342.4	74329.	10011.
Stddev	32.2	33.7	84.	87.
%RSD	.39135	.45875	.11255	.87297

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.954%	92.663%	89.468%	100.34%
Range				

Sample Name: 240-12577-a-2-g Acquired: 6/29/2012 19:29:16 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.93460	338.89	9.0067	247.61	331.54	.84144
Stddev	.40590	34.87	.6653	1.61	2.17	.03658
%RSD	43.431	10.289	7.3872	.65167	.65572	4.3473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44558.	3.206	12.544	3.8504	6.2305	719.74
Stddev	281.	.184	.064	.1775	.3746	6.80
%RSD	.63107	5.737	.50710	4.6098	6.0127	.94495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16378.	69.086	17001.	245.84	12.708	F 1060500.
Stddev	164.	1.710	77.	.91	.180	40205.
%RSD	1.0026	2.4755	.45355	.36862	1.4166	3.7911

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12577-a-2-g Acquired: 6/29/2012 19:29:16 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.789	4.2822	-1.254	4.4207	1.1486	.89646
Stddev	.515	.9464	2.323	.5399	.3770	.18439
%RSD	1.3289	22.100	185.3	12.212	32.825	20.569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.80362	-1.4298	1073.2	6530.7	1107.6
Stddev	.59427	2.2129	6.9	34.8	10.7
%RSD	73.948	154.77	.64015	.53356	.96845

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8285.1	7283.5	74003.	9903.6
Stddev	44.1	29.9	168.	20.6
%RSD	.53276	.41046	.22656	.20763

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.407%	91.921%	89.075%	99.270%
Range				

Sample Name: CCV Acquired: 6/29/2012 19:33:11 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1043.5	25649.	497.90	5185.9	2048.7	2032.8	49891.	486.1
Stddev	3.0	252.	9.47	76.3	20.1	20.2	446.	7.4
%RSD	.28642	.98214	1.9022	1.4715	.98193	.99353	.89406	1.525

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1969.6	1933.9	2045.7	25228.	51556.	5148.8	51283.	2005.3
Stddev	25.4	5.5	3.5	225.	516.	44.8	583.	21.6
%RSD	1.2921	.28490	.17073	.89305	1.0012	.86957	1.1377	1.0774

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1947.4	51544.	1966.9	477.41	477.0	506.29	5030.2	5326.9
Stddev	28.0	698.	26.2	6.99	6.7	7.58	64.9	46.5
%RSD	1.4388	1.3544	1.3304	1.4633	1.414	1.4975	1.2895	.87311

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 19:33:11 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1008.9	1949.3	1982.6	5353.1	5010.9
Stddev	14.6	16.0	24.5	92.0	44.0
%RSD	1.4510	.82284	1.2351	1.7178	.87833

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8839.2	7436.6	75323.	9440.8
Stddev	81.5	78.4	185.	93.7
%RSD	.92167	1.0544	.24513	.99269

Sample Name: CCB Acquired: 6/29/2012 19:37:05 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24607	29.532	1.2046	15.326	1.4007	.46089	16.649
Stddev	.42804	28.684	1.8335	1.960	.2662	.04457	2.235
%RSD	173.95	97.128	152.21	12.786	19.001	9.6705	13.424

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	✓Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0967	.25148	.74401	F 6.5429	8.9431	20.469	12.985
Stddev	.1543	.15303	.08341	.8677	2.5638	43.987	.388
%RSD	159.7	60.849	11.210	13.261	28.668	214.89	2.9911

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.662	.56063	.86949	554.98	.54095	.63851	-1.988
Stddev	10.212	.03615	.18540	24.78	.10378	.26305	1.927
%RSD	49.425	6.4488	21.323	4.4649	19.184	41.198	96.96

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 6/29/2012 19:37:05 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0743	1.3317	2.0288	.32373	.72283	.48859	-3.8061
Stddev	1.3802	.5348	.2637	.21837	.54068	.17207	8.4874
%RSD	66.536	40.156	12.996	67.454	74.800	35.218	222.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4.1064
Stddev	1.0601
%RSD	25.815

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9543.0	7647.4	76796.	9493.1
Stddev	36.9	27.9	99.	27.9
%RSD	.38716	.36467	.12953	.29341

Sample Name: 240-12577-a-3-g Acquired: 6/29/2012 19:40:56 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.02398	36.298	3.8098	303.48	65.086	.07711
Stddev	.23418	16.503	.5133	2.54	2.073	.04384
%RSD	976.65	45.464	13.474	.83796	3.1846	56.859

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16689.	.0059	.03965	8.1214	25.123	1378.3
Stddev	570.	.0492	.20162	.3533	.678	46.8
%RSD	3.4139	838.1	508.51	4.3507	2.6968	3.3969

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4460.0	54.130	1352.7	46.688	9.4084	F 1172200.
Stddev	186.8	2.344	59.7	1.308	.2801	83225.
%RSD	4.1891	4.3299	4.4169	2.8008	2.9767	7.0999

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12577-a-3-g Acquired: 6/29/2012 19:40:56 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.979	8.2431	-1.001	2.3383	4.4086	.88839
Stddev	.529	.9301	1.775	.8589	.3347	.09999
%RSD	3.3108	11.283	177.4	36.732	7.5932	11.255

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.65906	.46345	6381.4	890.23	65.708
Stddev	.53202	1.9035	50.5	36.77	8.310
%RSD	80.724	410.73	.79174	4.1307	12.647

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8273.3	7052.6	70673.	9498.4
Stddev	57.9	54.0	1332.	322.9
%RSD	.70020	.76606	1.8850	3.3994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.290%	89.007%	85.067%	95.209%
Range				

Sample Name: 240-12577-a-4-f Acquired: 6/29/2012 19:44:49 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-63679	54.996	3.6822	48.378	11.467	.00047
Stddev	.44343	12.992	.8068	1.217	.323	.03999
%RSD	69.634	23.623	21.911	2.5157	2.8129	8487.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1475.9	-.0502	.12154	1.8045	15.286	157.96
Stddev	8.9	.2352	.04918	.1702	2.648	1.05
%RSD	.60173	468.8	40.459	9.4331	17.326	.66301

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1305.1	39.420	149.67	7.2152	1.5249	F 1139500.
Stddev	42.9	.499	12.00	.5216	.1018	45393.
%RSD	3.2832	1.2659	8.0152	7.2287	6.6779	3.9837

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12577-a-4-f Acquired: 6/29/2012 19:44:49 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.4298	4.8565	-2.599	4.5935	12.563	.29961
Stddev	.1468	1.3498	.503	1.4969	.185	.25384
%RSD	1.7416	27.793	19.37	32.588	1.4730	84.725

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.34928	.34663	2221.3	3961.5	5.1960
Stddev	.61547	2.0148	46.8	24.9	3.2452
%RSD	176.21	581.26	2.1077	.62768	62.455

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8313.3	7095.9	67878.	9410.7
Stddev	141.9	127.9	3769.	71.8
%RSD	1.7067	1.8027	5.5520	.76321

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.687%	89.553%	81.703%	94.329%
Range				

Sample Name: 240-12577-a-5-f Acquired: 6/29/2012 19:48:42 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-30114	17.971	3.4853	31.821	4.5510	-.08596
Stddev	.41794	19.202	.7763	.261	.3378	.04510
%RSD	138.78	106.85	22.274	.82022	7.4224	52.464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2989.4	.6785	-.16027	1.2108	5.9427	314.85
Stddev	48.4	.1877	.13853	.0682	.7927	4.56
%RSD	1.6178	27.66	86.437	5.6327	13.339	1.4486

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4991.8	38.686	249.76	23.503	.20060	F 1115600.
Stddev	57.8	2.772	4.08	.196	.05973	46105.
%RSD	1.1578	7.1644	1.6327	.83204	29.778	4.1328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12577-a-5-f Acquired: 6/29/2012 19:48:42 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.0087	3.4442	-2.247	3.3409	261.39	-.06708
Stddev	.2407	.7544	1.081	1.2899	4.30	.30029
%RSD	3.0056	21.904	48.10	38.609	1.6454	447.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.36887	.01900	272.72	11182.	5.3223
Stddev	.12050	2.4615	3.89	144.	1.2853
%RSD	32.666	12956.	1.4246	1.2889	24.149

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8188.8	6995.9	70233.	9560.6
Stddev	106.5	87.8	477.	109.9
%RSD	1.3004	1.2545	.67942	1.1498

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.449%	88.291%	84.538%	95.832%
Range				

Sample Name: 240-12577-a-6-j Acquired: 6/29/2012 19:52:35 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

2.294 L

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-28955	29.477	4.7710	685.80	7.8995	-.05099
Stddev	.55227	28.353	.6024	5.03	.4031	.04847
%RSD	190.74	96.186	12.626	.73376	5.1026	95.065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3698.6	5.444	-.00777	3.3441	6.7011	67.373
Stddev	49.4	.092	.07986	.3650	1.5889	1.963
%RSD	1.3365	1.686	1027.9	10.915	23.711	2.9141

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1694.5	39.377	863.74	6.8416	1.8308	F 1134000.
Stddev	104.3	2.228	9.26	.0613	.0496	30574.
%RSD	6.1540	5.6589	1.0724	.89551	2.7106	2.6961

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12577-a-6-j Acquired: 6/29/2012 19:52:35 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.7650	14.532	-2.646	3.7402	49.754	-.11734
Stddev	.2465	.957	1.390	.8293	.792	.00866
%RSD	4.2751	6.5830	52.54	22.172	1.5922	7.3836

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.55993	.74922	6441.9	2177.4	4.1902
Stddev	.36180	1.3403	56.9	16.5	5.4205
%RSD	64.615	178.90	.88316	.75775	129.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8154.9	7004.2	69559.	9351.1
Stddev	57.4	41.8	147.	58.9
%RSD	.70444	.59714	.21075	.62952

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.112%	88.396%	83.726%	93.732%
Range				

Sample Name: 240-12577-a-7-j Acquired: 6/29/2012 19:56:28 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

0.867 L

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.04113	176.31	7.6365	F 27510.	95.171	-1.15104
Stddev	.31731	15.89	1.2631	54.	.849	.01494
%RSD	771.50	9.0112	16.540	.19732	.89259	9.8895

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20000.		
Low Limit				-500000.		

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	155410.	.7237	2.9890	5.1743	19.621	561.41
Stddev	2290.	.1189	.3036	.0448	.770	7.21
%RSD	1.4736	16.43	10.156	.86653	3.9222	1.2848

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91031.	64.068	21230.	844.07	35.521	F 1170900.
Stddev	1140.	1.898	292.	.57	.115	46235.
%RSD	1.2528	2.9631	1.3733	.06726	.32407	3.9488

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12577-a-7-j Acquired: 6/29/2012 19:56:28 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.016	2.8853	-.0375	6.0348	2.9312	.39248
Stddev	.451	1.1812	2.710	.3012	.3450	.30241
%RSD	2.1466	40.939	7219.	4.9905	11.770	77.051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.44125	3.9642	4480.5	3376.5	1471.7
Stddev	.91892	3.0369	7.1	24.0	14.2
%RSD	208.25	76.609	.15759	.70992	.96251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7780.7	6810.2	68462.	9360.5
Stddev	63.5	53.9	272.	97.4
%RSD	.81563	.79212	.39728	1.0409

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.390%	85.948%	82.406%	93.826%
Range				

Sample Name: 240-12577-a-7-j@4 Acquired: 6/29/2012 20:00:30 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *not needed*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36083	40.736	2.7926	6865.8	24.026	-.14908	39127.
Stddev	.42773	25.894	1.1688	138.0	.716	.00638	894.
%RSD	118.54	63.567	41.852	2.0095	2.9791	4.2771	2.2850

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1105	.46650	1.5368	9.9833	144.56	22324.	21.166
Stddev	.2085	.01590	.0800	.6165	3.82	554.	2.143
%RSD	188.6	3.4089	5.2086	6.1749	2.6398	2.4808	10.123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5329.1	208.94	8.6057	369690.	5.1693	1.0608	-3.003
Stddev	107.3	2.30	.0995	10787.	.4196	.6929	2.437
%RSD	2.0131	1.0996	1.1566	2.9178	8.1168	65.323	81.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12577-a-7-j@4 Acquired: 6/29/2012 20:00:30 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9490	.77491	-.05270	.83475	2.1989	1075.8	814.57
Stddev	.4335	.21816	.32320	.37952	1.7818	22.3	24.30
%RSD	22.243	28.153	613.31	45.464	81.029	2.0683	2.9837

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	373.74
Stddev	11.51
%RSD	3.0800

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8752.3	7392.0	74119.	9665.9
Stddev	148.1	113.8	498.	217.2
%RSD	1.6919	1.5398	.67189	2.2475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.054%	93.290%	89.216%	96.887%
Range				

Sample Name: 240-12540-g-1-i Acquired: 6/29/2012 20:04:22 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08641	499.74	8.5112	256.33	180.85	1.4482
Stddev	.48233	18.63	1.0224	6.95	3.07	.0516
%RSD	558.19	3.7288	12.012	2.7120	1.6955	3.5623

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93146.	F 17290.	48.900	8.8391	10.750	1282.9
Stddev	1400.	367.	1.379	.6185	.926	22.2
%RSD	1.5034	2.123	2.8203	6.9975	8.6123	1.7320

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2000.				
Low Limit		-500000.				

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13753.	35.016	20760.	5972.0	-.34673	F 1135400.
Stddev	141.	1.612	308.	253.6	.24274	46790.
%RSD	1.0228	4.6036	1.4816	4.2458	70.009	4.1209

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12540-g-1-i Acquired: 6/29/2012 20:04:22 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	79.027	10.200	-3.640	3.9399	1.2771	1.3957
Stddev	2.373	.279	.928	2.1213	.2637	.3772
%RSD	3.0031	2.7371	25.50	53.841	20.649	27.023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	5.6888	2.3066	1485.5	9191.6	229.41
Stddev	1.0465	.6637	35.8	105.1	2.55
%RSD	18.397	28.775	2.4123	1.1439	1.1110

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7996.4	7060.9	70502.	9492.6
Stddev	147.5	133.5	3724.	53.3
%RSD	1.8449	1.8908	5.2825	.56191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.535%	89.112%	84.862%	95.150%
Range				

Sample Name: 240-12540-g-2-i Acquired: 6/29/2012 20:08:42 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41495	213.63	10.933	440.48	867.83	1.8207
Stddev	.41937	21.05	1.278	2.62	1.84	.0230
%RSD	101.06	9.8557	11.691	.59509	.21176	1.2637

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39299.	95.15	65.338	106.69	189.02	250.42
Stddev	106.	.95	.428	1.13	2.17	1.73
%RSD	.26972	✓ .9987	.65439	1.0633	1.1502	.69101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18515.	38.883	23093.	3881.2	1.1562	F 1099600.
Stddev	139.	1.867	89.	46.9	.2202	27911.
%RSD	.75133	4.8006	.38369	1.2088	19.044	2.5382

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12540-g-2-i Acquired: 6/29/2012 20:08:42 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	396.56	925.56	13.82	4.0488	1.5503	.24679
Stddev	1.78	5.59	1.98	.7061	.2345	.08037
%RSD	.44889	.60403	14.31	17.441	15.128	32.564

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.6975	-.32513	F 10772.	3194.6	318.92
Stddev	.4861	1.8623	45.	8.6	7.64
%RSD	13.146	572.79	.41827	.26855	2.3943

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			10000.		
Low Limit			-500000.		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8062.5	7017.5	70025.	9330.3
Stddev	17.0	13.4	446.	72.2
%RSD	.21134	.19120	.63676	.77375

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.193%	88.563%	84.287%	93.523%
Range				

Sample Name: 240-12540-g-3-f Acquired: 6/29/2012 20:12:43 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0043	65.918	16.856	57.846	624.64	.14026
Stddev	.5855	15.557	5.150	1.863	3.70	.01161
%RSD	58.294	23.601	30.551	3.2205	.59216	8.2795

Check ?	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56257.	114.7	336.50	F 104060.	18.054	47.906
Stddev	336.	4.3	11.47	3685.	.227	.412
%RSD	.59739	3.727	3.4087	3.5414	1.2595	.85998

Check ?	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Low Limit	Chk Pass	Chk Pass	Chk Pass	20000. -500000.	Chk Pass	Chk Pass

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62839.	28.526	6644.2	1069.5	6.1261	F 1104500.
Stddev	470.	2.197	48.1	35.6	.3565	48420.
%RSD	.74743	7.7018	.72401	3.3250	5.8197	4.3839

Check ?	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	500000. -500000.

Sample Name: 240-12540-g-3-f Acquired: 6/29/2012 20:12:43 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.672	3.2617	1.317	2.7537	-8.6449	.32581
Stddev	.688	.5405	1.847	.0207	.3156	.18737
%RSD	5.0331	16.570	140.2	.75083	3.6505	57.509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	20.948	21.312	F 201010.	1471.2	86.283
Stddev	1.351	2.548	5252.	11.2	1.495
%RSD	6.4500	11.954	2.6128	.76150	1.7329

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			10000.		
Low Limit			-500000.		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8052.4	7071.5	67811.	9299.9
Stddev	228.9	201.4	2004.	58.8
%RSD	2.8427	2.8486	2.9546	.63240

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.092%	89.244%	81.623%	93.218%
Range				

Sample Name: 240-12540-g-3-f@10 Acquired: 6/29/2012 20:16:51 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Ncm matrix

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-11044	36.213	2.8753	12.696	63.264	-04190	5726.4
Stddev	.12136	11.122	1.0618	.627	.791	.00817	30.1
%RSD	109.89	30.713	36.927	4.9407	1.2496	19.489	.52627

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.22	33.495	11667.	7.8942	10.180	6218.8	11.524
Stddev	.35	.516	243.	.3851	2.213	61.0	2.437
%RSD	2.847	1.5414	2.0820	4.8786	21.743	.98156	21.148

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	697.86	108.38	.55617	139580.	1.7512	.82704	-2.288
Stddev	16.01	2.51	.12494	120.	.2531	1.2332	.152
%RSD	2.2936	2.3158	22.464	.08569	14.450	149.11	6.650

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12540-g-3-f@10 Acquired: 6/29/2012 20:16:51 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7788	-.72989	-.16302	2.0533	2.3133	F 47973.	133.10
Stddev	.7646	.04651	.04222	.3995	3.2552	1286.	9.83
%RSD	42.987	6.3715	25.898	19.457	140.72	2.6811	7.3865

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	10.010
Stddev	4.765
%RSD	47.599

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9055.9	7471.5	74204.	9412.9
Stddev	81.0	70.0	1313.	11.6
%RSD	.89498	.93721	1.7689	.12279

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.074%	94.293%	89.318%	94.351%
Range				

Sample Name: CCV Acquired: 6/29/2012 20:21:02 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1045.0	25288.	496.55	5217.7	2033.7	2053.3	49029.	479.3
Stddev	18.0	154.	2.54	25.7	11.3	9.0	299.	2.5
%RSD	1.7225	.60769	.51217	.49246	.55717	.43923	.60998	.5244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1975.6	1917.7	2041.7	24581.	51318.	5174.2	52007.	1992.3
Stddev	8.6	33.8	34.5	181.	281.	21.1	254.	50.2
%RSD	.43655	1.7625	1.6918	.73552	.54794	.40834	.48882	2.5197

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1938.6	52269.	1973.4	474.23	471.3	504.58	5076.9	5383.4
Stddev	8.8	177.	7.3	3.01	3.9	4.00	17.9	108.5
%RSD	.45554	.33769	.36882	.63465	.8172	.79349	.35281	2.0153

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 20:21:02 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1014.8	1920.7	2030.3	5052.4	5040.1
Stddev	2.8	14.8	7.4	29.3	23.1
%RSD	.27367	.77241	.36679	.58067	.45832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8784.3	7450.5	75055.	9276.4
Stddev	15.4	20.8	1233.	36.9
%RSD	.17512	.27930	1.6430	.39794

Sample Name: CCB Acquired: 6/29/2012 20:24:57 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.33540	31.436	.13257	16.400	1.2267	.47471	14.809
Stddev	.22219	27.486	1.8018	1.529	.1150	.01403	.957
%RSD	66.246	87.436	1359.1	9.3215	9.3778	2.9555	6.4628

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	✓ Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0240	.02279	3.7744	F 6.9615	7.4377	-51.366	9.4505
Stddev	.1145	.15556	.2309	.7643	.1738	61.090	1.7011
%RSD	476.5	682.61	6.1162	10.979	2.3367	118.93	18.000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.623	.50314	.61786	521.02	.28966	.55758	-3.122
Stddev	3.839	.03804	.21949	24.34	.31277	.80443	.579
%RSD	16.969	7.5602	35.524	4.6721	107.98	144.27	18.54

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 6/29/2012 20:24:57 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4878	1.3878	1.9292	.23175	1.3603	14.705	-16.377
Stddev	1.0320	.3729	.1252	.45624	2.2831	1.800	3.071
%RSD	41.482	26.866	6.4900	196.87	167.83	12.243	18.753

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2.2448
Stddev	5.3532
%RSD	238.47

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9559.9	7701.8	76423.	9451.2
Stddev	62.1	51.2	135.	101.9
%RSD	.64937	.66511	.17603	1.0786

Sample Name: 240-12540-g-4-g Acquired: 6/29/2012 20:28:46 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18366	91.806	8.2561	582.47	209.05	.66862
Stddev	.34196	9.294	1.0796	15.28	3.91	.03976
%RSD	186.19	10.123	13.076	2.6226	1.8693	5.9464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21843.	1.217	19.485	6.1144	9.7463	92.076
Stddev	383.	.040	.597	.4454	.7142	.744
%RSD	1.7513	3.266	3.0620	7.2848	7.3282	.80802

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5563.2	24.563	8045.8	485.08	.30471	F 1191800.
Stddev	101.0	1.254	116.4	23.79	.14990	59279.
%RSD	1.8161	5.1043	1.4466	4.9050	49.193	4.9741

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12540-g-4-g Acquired: 6/29/2012 20:28:46 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.077	5.8229	-2.405	3.0529	1.5724	.78799
Stddev	.871	.2281	.710	2.0493	.8693	.47827
%RSD	5.7795	3.9177	29.53	67.125	55.286	60.695

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.36407	.70330	183.96	1761.0	109.62
Stddev	.46954	2.6873	5.98	29.1	5.34
%RSD	128.97	382.09	3.2488	1.6546	4.8711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8076.6	7000.0	70840.	9378.6
Stddev	173.0	153.0	2839.	128.1
%RSD	2.1423	2.1854	4.0078	1.3664

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.333%	88.342%	85.268%	94.007%
Range				

Sample Name: 240-12643-e-1-c Acquired: 6/29/2012 20:32:40 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01172	6266.9	44.244	2501.9	80.060	.29747
Stddev	.36593	128.4	1.907	59.1	1.924	.04209
%RSD	3122.5	2.0492	4.3100	2.3626	2.4029	14.148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 553410.	5.788	113.61	406.02	159.56	70495.
Stddev	10900.	.247	3.07	1.36	1.76	1591.
%RSD	1.9696	4.273	2.7001	.33442	1.1024	2.2570

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	500000.					
Low Limit	-500000.					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	104830.	1269.9	103350.	2999.1	4.7904	F 1792600.
Stddev	2182.	24.6	2154.	37.4	.2543	319080.
%RSD	2.0810	1.9407	2.0844	1.2484	5.3091	17.800

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12643-e-1-c Acquired: 6/29/2012 20:32:40 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	169.44	17.770	-6.895	3.2649	7.8741	27.060
Stddev	4.42	.189	3.954	1.3734	.4441	.183
%RSD	2.6069	1.0657	57.35	42.066	5.6404	.67674

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.9945	12.050	913.23	7785.0	38291.
Stddev	.3763	3.614	22.86	204.7	787.
%RSD	9.4212	29.989	2.5032	2.6298	2.0557

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	✓ W 6951.3	6445.3	64343.	9215.8
Stddev	148.5	128.9	287.	161.8
%RSD	2.1361	1.9998	.44641	1.7552

Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value	69.140%	81.342%	77.449%	92.376%
Range	-30.500%			

Sample Name: 240-12643-e-1-c@4 Acquired: 6/29/2012 20:36:49 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *not needed*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.17767	1646.9	11.848	638.81	21.930	-.02579
Stddev	.37830	43.5	.735	6.82	.426	.04116
%RSD	212.93	2.6384	6.2066	1.0670	1.9410	159.60

Check ?	High Limit	Low Limit
Ag3280	Chk Pass	Chk Pass
Al3082	Chk Pass	Chk Pass
As1890	Chk Pass	Chk Pass
B_1826	Chk Pass	Chk Pass
Ba4554	Chk Pass	Chk Pass
Be3130	Chk Pass	Chk Pass

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	149800.	1.554	28.258	108.42	44.798	18722.
Stddev	1166.	.032	.240	.54	1.232	293.
%RSD	.77858	2.079	.84928	.49673	2.7491	1.5638

Check ?	High Limit	Low Limit
Ca3179	Chk Pass	Chk Pass
Cd2288	Chk Pass	Chk Pass
Co2286	Chk Pass	Chk Pass
Cr2677	Chk Pass	Chk Pass
Cu3273	Chk Pass	Chk Pass
Fe2599	Chk Pass	Chk Pass

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27059.	322.92	27960.	800.03	1.1832	F 813320.
Stddev	467.	7.35	528.	3.05	.1607	13505.
%RSD	1.7249	2.2775	1.8892	.38164	13.578	1.6605

Check ?	High Limit	Low Limit
K_7664	Chk Pass	Chk Pass
Li6707	Chk Pass	Chk Pass
Mg2790	Chk Pass	Chk Pass
Mn2576	Chk Pass	Chk Pass
Mo2020	Chk Pass	Chk Pass
Na5895	Chk Fail	500000. -500000.

Sample Name: 240-12643-e-1-c@4 Acquired: 6/29/2012 20:36:49 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.944	4.6551	-4.471	1.4617	2.5863	6.9564
Stddev	.694	.8085	1.405	1.2085	.5820	.2103
%RSD	1.5097	17.368	31.42	82.683	22.502	3.0225

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.5069	5.0183	232.46	2002.8	10085.
Stddev	.3260	.6925	1.04	44.4	173.
%RSD	13.003	13.800	.44598	2.2178	1.7176

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8106.8	6999.9	69229.	9154.7
Stddev	71.8	60.5	446.	82.1
%RSD	.88600	.86433	.64494	.89732

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.634%	88.342%	83.330%	91.763%
Range				

Sample Name: 240-12656-g-1-b Acquired: 6/29/2012 20:40:51 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74709	97326	78.292	25.312	2206.6	8.8367	32625
Stddev	.12414	131.	.698	.285	3.1	.0286	41.
%RSD	16.616	.13508	.89184	1.1278	.14080	.32338	.12640

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.067	303.39	190.91	281.08	426640.	10111.	132.57
Stddev	.156	2.85	.37	1.28	2288.	7.	1.51
%RSD	3.846	.94085	.19409	.45687	.53625	.07338	1.1372

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33458.	10585.	15.890	3117.0	609.61	107.51	-3.981
Stddev	94.	263.	.295	95.3	7.02	.60	2.265
%RSD	.28140	2.4852	1.8592	3.0567	1.1509	.55985	56.90

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-1-b Acquired: 6/29/2012 20:40:51 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.7945	17.705	450.89	14.968	210.40	1487.9	2370.1
Stddev	.6853	.751	1.47	.666	1.67	13.4	29.3
%RSD	8.7914	4.2398	.32534	4.4487	.79348	.90026	1.2342

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	233.80
Stddev	4.73
%RSD	2.0241

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8551.5	9250.5	92048.	11484.
Stddev	59.6	51.7	186.	16.
%RSD	.69642	.55884	.20197	.14065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.057%	116.74%	110.80%	115.11%
Range				

Sample Name: SD 240-12656-g-1-b@5 Acquired: 6/29/2012 20:44:47 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.03223	24109.	20.790	8.6312	538.47	2.0827	8057.2
Stddev	.33668	343.	1.194	.1821	7.31	.0816	95.9
%RSD	1044.6	1.4226	5.7428	2.1094	1.3569	3.9173	1.1902

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9156	60.892	48.784	74.495	110190.	2428.9	38.661
Stddev	.1019	.340	1.150	1.429	1007.	42.3	1.761
%RSD	11.13	.55844	2.3576	1.9179	.91343	1.7400	4.5536

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8404.7	2896.0	3.8292	1220.9	121.75	27.632	-2.918
Stddev	100.4	37.0	.1491	35.7	1.25	.509	1.083
%RSD	1.1945	1.2781	3.8926	2.9256	1.0262	1.8425	37.13

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: SD 240-12656-g-1-b@5 Acquired: 6/29/2012 20:44:47 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6225	3.3148	111.75	3.5353	52.182	303.47	582.17
Stddev	.3763	.2290	2.70	1.1871	1.715	1.09	40.41
%RSD	10.387	6.9088	2.4195	33.579	3.2874	.35874	6.9406

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	63.076
Stddev	3.504
%RSD	5.5559

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9283.0	8017.8	79041.	9831.7
Stddev	19.5	26.9	1425.	91.0
%RSD	.21030	.33591	1.8023	.92542

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.333%	101.19%	95.140%	98.550%
Range				

Sample Name: 240-12656-g-1-c.ms Acquired: 6/29/2012 20:48:49 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag ³²⁸⁰	Al ³⁰⁸²	As ¹⁸⁹⁰	B ¹⁸²⁶	Ba ⁴⁵⁵⁴	Be ³¹³⁰
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.649	104610.	1433.6	656.28	3119.0	46.428
Stddev	.902	862.	26.8	12.28	34.6	.500
%RSD	2.2180	.82435	1.8698	1.8711	1.1087	1.0761

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca ³¹⁷⁹	Cd ²²⁸⁸	Co ²²⁸⁶	Cr ²⁶⁷⁷	Cu ³²⁷³	Fe ²⁵⁹⁹
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61837.	40.12	862.35	354.42	440.02	F 589340.
Stddev	596.	.78	21.82	7.49	10.08	8464.
%RSD	.96397	1.952	2.5306	2.1147	2.2919	1.4362

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Elem	K ⁷⁶⁶⁴	Li ⁶⁷⁰⁷	Mg ²⁷⁹⁰	Mn ²⁵⁷⁶	Mo ²⁰²⁰	Na ⁵⁸⁹⁵
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46320.	918.66	73101.	14693.	697.24	42087.
Stddev	551.	10.27	924.	213.	12.32	380.
%RSD	1.1896	1.1175	1.2644	1.4494	1.7672	.90262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-12656-g-1-c ms Acquired: 6/29/2012 20:48:49 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1298.6	480.03	109.8	1404.8	1862.7	895.62
Stddev	33.0	7.51	1.9	25.0	47.2	17.10
%RSD	2.5440	1.5640	1.763	1.7795	2.5328	1.9096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1985.3	628.93	1961.0	4887.5	934.12
Stddev	52.9	5.21	50.8	311.4	7.78
%RSD	2.6651	.82782	2.5896	6.3719	.83270

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7947.2	9417.2	94010.	11773.
Stddev	166.2	123.3	1447.	135.
%RSD	2.0917	1.3094	1.5386	1.1433

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.046%	118.85%	113.16%	118.00%
Range				

Sample Name: 240-12656-g-1-d msd Acquired: 6/29/2012 20:52:45 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.007	118960.	1578.5	737.49	3751.5	49.230	71608.
Stddev	.615	1244.	10.4	4.84	33.6	.462	311.
%RSD	1.4300	1.0457	.65851	.65586	.89474	.93873	.43417

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.96	815.49	348.28	511.77	427250.	53274.	991.85
Stddev	.27	5.55	.93	3.21	3565.	587.	10.13
%RSD	.6658	.68065	.26792	.62662	.83432	1.1021	1.0216

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	73816.	13243.	729.44	44177.	1156.1	469.94	112.6
Stddev	773.	42.	4.57	518.	7.9	1.92	.8
%RSD	1.0466	.32059	.62607	1.1719	.68416	.40864	.7244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-1-d msd Acquired: 6/29/2012 20:52:45 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1497.0	1863.5	1129.7	1978.4	596.08	2098.3	5667.8
Stddev	5.2	11.3	7.7	12.2	4.41	14.3	371.2
%RSD	.34807	.60675	.68562	.61874	.73928	.68253	6.5496

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	1078.0
Stddev	8.9
%RSD	.82603

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8021.1	8929.5	88703.	11196.
Stddev	50.8	50.9	133.	80.
%RSD	.63293	.56952	.14989	.71854

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.781%	112.69%	106.77%	112.23%
Range				

Sample Name: 240-12656-g-2-b Acquired: 6/29/2012 20:56:48 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37199	99884.	27.488	30.918	1357.1	6.5892	51998.
Stddev	.06327	1707.	1.095	.415	20.9	.1392	849.
%RSD	17.009	1.7090	3.9819	1.3420	1.5436	2.1130	1.6335

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.445	141.04	181.73	228.50	327750.	10620.	163.06
Stddev	.069	1.13	.97	.30	5299.	167.	4.09
%RSD	4.754	.79895	.53313	.13034	1.6167	1.5748	2.5056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40165.	7199.4	7.3841	2794.2	293.13	129.36	-5.333
Stddev	614.	59.6	.1215	45.2	2.08	.26	2.333
%RSD	1.5296	.82841	1.6452	1.6178	.70817	.20364	43.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-2-b Acquired: 6/29/2012 20:56:48 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se ¹⁹⁶⁰	Sn ¹⁸⁹⁹	Ti ³³⁷²	Ti ¹⁹⁰⁸	V ²⁹⁰⁸	Zn ²⁰⁶²	Si ²⁵¹⁶
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.1792	16.725	500.51	8.9813	185.05	735.45	3002.4
Stddev	.6435	.611	1.26	.2537	4.73	5.98	171.6
%RSD	8.9634	3.6554	.25264	2.8253	2.5566	.81323	5.7153

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr ³⁴⁶⁴
IS Ref	(Y_3710)
Units	ppb
Avg	255.31
Stddev	4.44
%RSD	1.7379

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8735.1	8846.6	87103.	10526.
Stddev	26.7	14.6	671.	155.
%RSD	.30589	.16481	.77055	1.4714

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.883%	111.65%	104.84%	105.51%
Range				

Sample Name: 240-12656-g-3-b Acquired: 6/29/2012 21:00:44 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22517	122970.	125.15	19.454	1463.3	9.4025	36449.
Stddev	.16814	464.	1.38	.363	3.9	.0639	127.
%RSD	74.672	.37743	1.1023	1.8637	.26360	.67946	.34864

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8289	93.484	217.26	274.76	258540.	13254.	173.35
Stddev	.2202	.709	.30	1.64	2890.	72.	1.37
%RSD	26.56	.75882	.13781	.59818	1.1179	.54620	.78760

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35447.	2193.1	9.8711	4265.4	319.88	160.63	-3.421
Stddev	155.	7.2	.1009	28.1	3.46	1.93	1.634
%RSD	.43626	.32941	1.0223	.65845	1.0827	1.1990	47.76

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-3-b Acquired: 6/29/2012 21:00:44 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.1106	18.267	344.36	1.0270	212.47	786.73	2141.6
Stddev	1.9959	.207	.68	.9426	.83	6.66	29.6
%RSD	32.663	1.1354	.19712	91.781	.39226	.84622	1.3836

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	242.85
Stddev	4.38
%RSD	1.8020

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8842.7	8925.2	88187.	10890.
Stddev	58.4	49.8	344.	27.
%RSD	.66049	.55741	.39057	.24932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.953%	112.64%	106.15%	109.15%
Range				

Sample Name: 240-12656-g-4-b Acquired: 6/29/2012 21:04:39 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.08983	120040.	35.554	17.928	1818.4	6.7648	38480.
Stddev	.29839	648.	1.598	.687	9.3	.0371	175.
%RSD	332.19	.54020	4.4931	3.8296	.50924	.54792	.45449

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8488	161.88	207.33	249.28	266230.	11062.	207.32
Stddev	.1864	2.58	.52	.95	2483.	61.	1.14
%RSD	21.97	1.5957	.25167	.38261	.93266	.54856	.55048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53627.	3758.7	3.7936	1945.7	335.91	107.84	-5.187
Stddev	239.	28.5	.1009	9.6	4.45	2.13	2.009
%RSD	.44602	.75808	2.6584	.49387	1.3245	1.9750	38.73

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-4-b Acquired: 6/29/2012 21:04:39 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

RR

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.3232	16.485	721.12	3.6181	188.82	775.49	2157.2
Stddev	3.4280	.757	.79	.8380	1.27	10.11	42.1
%RSD	54.213	4.5894	.10997	23.162	.67516	1.3033	1.9500

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	214.36
Stddev	.97
%RSD	.45287

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8683.2	8123.8	81232.	9997.9
Stddev	87.6	69.4	94.	34.7
%RSD	1.0089	.85488	.11562	.34674

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.366%	102.53%	97.777%	100.21%
Range				

Sample Name: CCV Acquired: 6/29/2012 21:08:38 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1043.6	25773.	496.58	5184.9	2041.1	2079.9	49833.	486.8
Stddev	4.4	26.	1.31	30.4	.9	1.0	17.	1.5
%RSD	.42460	.09948	.26327	.58631	.04574	.04824	.03321	.3109

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1984.9	1925.7	2041.2	25035.	52715.	5321.4	53100.	2033.3
Stddev	8.6	4.7	7.4	31.	105.	7.0	66.	20.0
%RSD	.43259	.24533	.36040	.12375	.19855	.13167	.12441	.98558

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1935.5	54022.	1983.6	476.17	479.1	507.57	5096.3	5387.3
Stddev	7.2	121.	10.9	1.28	2.0	2.67	28.1	44.4
%RSD	.37162	.22462	.55146	.26787	.4181	.52670	.55154	.82395

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 21:08:38 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1025.2	1951.5	2013.5	5135.6	5124.5
Stddev	5.4	.7	11.0	79.7	9.9
%RSD	.52192	.03588	.54624	1.5522	.19398

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8715.9	7408.8	74103.	9070.1
Stddev	39.1	26.1	207.	18.7
%RSD	.44816	.35219	.27933	.20628

Sample Name: CCB Acquired: 6/29/2012 21:12:33 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15875	58.492	.96056	12.850	1.9285	.53363	15.166
Stddev	.38030	23.688	.38276	1.446	.2432	.05467	.836
%RSD	239.56	40.498	39.848	11.256	12.611	10.245	5.5151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	✓ Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0161	.29676	.65992	F 7.8442	48.512	79.338	15.798
Stddev	.0955	.19850	.26930	1.4988	2.131	6.541	2.292
%RSD	593.3	66.891	40.808	19.107	4.3928	8.2448	14.509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.520	1.0138	.72015	338.61	.91330	.71473	-2.538
Stddev	10.824	.0823	.22177	12.61	1.2415	.61322	.821
%RSD	34.339	8.1180	30.795	3.7228	135.94	85.796	32.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 6/29/2012 21:12:33 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8189	1.1659	2.0355	.14185	1.1378	.66846	-23.351
Stddev	1.3734	.4443	.1609	.18265	3.3936	.62777	6.550
%RSD	75.507	38.106	7.9050	128.76	298.25	93.912	28.050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1.1220
Stddev	.9001
%RSD	80.217

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9400.8	7607.4	76057.	9096.2
Stddev	32.0	22.0	173.	82.0
%RSD	.34015	.28939	.22724	.90185

Sample Name: 240-12656-g-5-b Acquired: 6/29/2012 21:16:22 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

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Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30824	80776.	35.531	13.883	1219.9	6.2386	34358.
Stddev	.19584	130.	1.219	.119	.9	.0607	22.
%RSD	63.537	.16116	3.4306	.86041	.07622	.97295	.06418

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.391	189.01	172.38	186.68	342570.	9452.9	119.09
Stddev	.064	.71	4.06	3.65	2762.	27.6	.84
%RSD	4.610	.37738	2.3571	1.9545	.80617	.29204	.70243

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28433.	7300.6	6.5067	695.52	377.83	116.92	-7.490
Stddev	66.	97.7	.1071	10.61	1.74	.36	1.813
%RSD	.23081	1.3386	1.6461	1.5255	.46141	.30888	24.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-5-b Acquired: 6/29/2012 21:16:22 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.4992	17.300	342.92	8.0236	179.73	1127.4	1374.1
Stddev	.7193	.554	7.60	1.8369	1.07	3.0	13.3
%RSD	15.988	3.2038	2.2171	22.894	.59508	.26695	.96983

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	287.89
Stddev	3.31
%RSD	1.1511

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8431.1	W 11949.	W 119090.	W 14658.
Stddev	37.9	40.	1484.	83.
%RSD	.44907	.33888	1.2460	.56589

Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Warn
Value	83.859%	150.81%	143.34%	146.92%
Range		30.500%	30.500%	30.500%

Sample Name: 240-12656-g-6-b Acquired: 6/29/2012 21:20:17 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.66696	119000.	67.924	22.669	2525.8	9.1603	68181.
Stddev	.50650	341.	2.524	1.023	7.0	.0448	268.
%RSD	75.941	.28698	3.7154	4.5131	.27899	.48884	.39347

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.532	131.49	198.46	236.47	275530.	11450.	157.72
Stddev	.205	3.71	3.11	4.20	1702.	55.	1.01
%RSD	13.39	2.8250	1.5694	1.7757	.61786	.47704	.63915

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37523.	7860.7	7.2331	861.31	377.00	98.787	-4.400
Stddev	307.	133.9	.0838	18.77	13.85	1.588	1.751
%RSD	.81719	1.7034	1.1589	2.1796	3.6734	1.6079	39.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-6-b Acquired: 6/29/2012 21:20:17 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

	<i>RL</i>						
Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.5576	19.169	544.68	9.7352	171.79	822.08	5331.8
Stddev	2.6161	.435	8.99	.9584	3.09	25.25	571.3
%RSD	47.073	2.2690	1.6501	9.8446	1.8013	3.0708	10.714

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	305.12
Stddev	3.62
%RSD	1.1873

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8745.2	9726.9	92302.	11423.
Stddev	215.0	169.7	1300.	76.
%RSD	2.4580	1.7444	1.4089	.66575

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.983%	122.76%	111.10%	114.50%
Range				

Sample Name: 240-12656-g-7-b Acquired: 6/29/2012 21:24:16 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.90873	135960.	97.843	21.557	1641.5	6.7443	23567.
Stddev	.38963	150.	1.719	.298	3.6	.0382	30.
%RSD	42.876	.11049	1.7566	1.3833	.22013	.56583	.12821

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.122	143.56	197.59	251.92	344970.	12694.	285.85
Stddev	.073	.95	.99	.74	1501.	34.	1.89
%RSD	6.485	.66040	.49870	.29329	.43512	.26786	.66244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38388.	5680.9	9.1655	840.13	281.60	149.69	-1.582
Stddev	21.	31.2	.0845	11.72	1.80	.82	2.129
%RSD	.05461	.54946	.92241	1.3944	.63787	.54911	134.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-7-b Acquired: 6/29/2012 21:24:16 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.8177	18.437	999.62	5.0505	215.18	753.97	2008.6
Stddev	.3603	.377	3.97	.3834	1.89	4.45	21.2
%RSD	4.0859	2.0471	.39685	7.5912	.87951	.59065	1.0531

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	205.67
Stddev	3.22
%RSD	1.5657

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8797.7	8352.2	82131.	10063.
Stddev	32.6	19.3	303.	13.
%RSD	.37043	.23128	.36842	.13195

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.505%	105.41%	98.859%	100.87%
Range				

Sample Name: 240-12656-g-8-b Acquired: 6/29/2012 21:28:12 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62675	122350.	143.85	26.732	1682.6	10.337	35349.
Stddev	.33532	375.	.33	.236	3.8	.031	117.
%RSD	53.502	.30673	.23225	.88248	.22876	.29946	.33061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.266	229.81	164.30	276.10	326680.	14073.	163.97
Stddev	.073	1.50	.22	.49	1362.	21.	1.21
%RSD	3.225	.65084	.13375	.17576	.41681	.15048	.73668

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29359.	12378.	14.933	861.88	466.49	158.61	-4.606
Stddev	46.	53.	.141	6.42	2.28	1.05	3.018
%RSD	.15548	.43192	.94522	.74515	.48889	.66203	65.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-8-b Acquired: 6/29/2012 21:28:12 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.4731	20.314	634.34	16.900	213.14	1031.9	1994.7
Stddev	1.1705	.412	.67	.099	1.77	5.5	19.0
%RSD	12.356	2.0289	.10531	.58307	.83121	.53511	.95134

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	238.27
Stddev	3.67
%RSD	1.5397

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8685.3	9891.1	97959.	12174.
Stddev	33.7	18.5	151.	8.
%RSD	.38769	.18686	.15420	.06259

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.388%	124.83%	117.91%	122.03%
Range				

Sample Name: 240-12656-g-9-b Acquired: 6/29/2012 21:32:07 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.80188	104300.	44.395	12.422	1487.8	9.3369
Stddev	.15577	213.	2.249	.246	1.8	.0521
%RSD	19.426	.20407	5.0660	1.9842	.12384	.55842

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25477.	4.196	157.52	250.15	247.71	F 596380.
Stddev	55.	.042	1.81	1.01	1.47	4536.
%RSD	.21562	.9951	1.1463	.40277	.59518	.76053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9647.9	138.94	34643.	10993.	17.139	4956.6
Stddev	19.1	1.00	104.	50.	.118	9.2
%RSD	.19810	.71708	.29930	.45880	.69066	.18640

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-12656-g-9-b Acquired: 6/29/2012 21:32:07 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	354.74	98.069	-4.934	10.568	15.796	371.04
Stddev	4.83	1.403	.930	2.683	1.063	1.02
%RSD	1.3605	1.4304	18.85	25.386	6.7310	.27362

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	16.164	202.68	819.18	1972.4	177.97
Stddev	1.170	.17	10.88	36.3	1.03
%RSD	7.2410	.08378	1.3285	1.8420	.58150

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8508.4	9203.2	89457.	11122.
Stddev	77.4	56.7	89.	46.
%RSD	.90978	.61654	.09903	.41685

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.628%	116.15%	107.68%	111.48%
Range				

Sample Name: 240-12656-g-10-b Acquired: 6/29/2012 21:36:03 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.9395	102080.	118.82	27.464	1630.0	9.7951	55367.
Stddev	.0359	116.	.67	.104	2.2	.0240	96.
%RSD	.45170	.11339	.56171	.37844	.13447	.24515	.17399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.487	169.39	190.49	3241.3	257950.	13409.	121.59
Stddev	.011	.37	1.95	36.3	3743.	29.	.71
%RSD	.1415	.21829	1.0246	1.1211	1.4511	.21844	.58258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23794.	12765.	27.012	1397.2	386.82	484.88	-3.762
Stddev	37.	150.	.186	11.4	.12	1.13	.580
%RSD	.15705	1.1739	.68681	.81471	.03080	.23366	15.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-10-b Acquired: 6/29/2012 21:36:03 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.413	144.33	603.81	17.405	159.53	1113.5	3660.4
Stddev	1.357	.17	6.28	.720	1.52	.0	78.3
%RSD	13.029	.11661	1.0403	4.1374	.95470	.00267	2.1404

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	250.73
Stddev	.61
%RSD	.24241

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8789.9	9586.0	94901.	11659.
Stddev	7.2	1.8	674.	24.
%RSD	.08147	.01914	.71047	.20647

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.428%	120.98%	114.23%	116.87%
Range				

Sample Name: 240-12656-g-11-b Acquired: 6/29/2012 21:39:59 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22202	121820.	35.571	17.457	1315.7	7.6324	48481.
Stddev	.25555	1851.	.325	.397	21.5	.1284	762.
%RSD	115.10	1.5196	.91429	2.2766	1.6330	1.6818	1.5714

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.435	191.59	217.95	270.20	361920.	11759.	207.95
Stddev	.107	.69	.60	2.01	3746.	145.	4.77
%RSD	7.450	.36029	.27452	.74422	1.0350	1.2313	2.2931

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49362.	5843.4	7.0665	1738.8	387.98	125.01	-5.162
Stddev	896.	17.9	.1864	41.1	1.29	.39	3.282
%RSD	1.8156	.30659	2.6382	2.3655	.33326	.31281	63.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12656-g-11-b Acquired: 6/29/2012 21:39:59 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.0721	15.152	570.05	6.2976	213.31	848.46	1948.6
Stddev	2.4864	.570	1.84	.4605	5.24	2.09	59.7
%RSD	30.803	3.7593	.32307	7.3120	2.4574	.24653	3.0641

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	226.89
Stddev	8.79
%RSD	3.8726

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8729.3	8609.0	84206.	10280.
Stddev	31.2	33.9	316.	97.
%RSD	.35782	.39432	.37582	.93978

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.825%	108.65%	101.36%	103.04%
Range				

Sample Name: 240-12631-c-1-a Acquired: 6/29/2012 21:43:55 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.1535	452800.	22.115	894.46	17349.	27.993	395570.
Stddev	.1379	11729.	.439	.27	465.	.817	9046.
%RSD	4.3730	2.5902	1.9841	.02973	2.6805	2.9201	2.2868

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8345	161.18	382.38	179.70	344020.	25774.	302.59
Stddev	.0844	.78	.79	.91	8911.	689.	9.23
%RSD	10.11	.48223	.20699	.50732	2.5902	2.6744	3.0507

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80727.	939.07	19.579	31361.	290.62	12.321	-12.74
Stddev	2293.	1.13	.206	831.	1.90	1.894	1.06
%RSD	2.8400	.12002	1.0528	2.6510	.65438	15.368	8.337

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12631-c-1-a Acquired: 6/29/2012 21:43:55 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.9187	25.287	22204.	-23.285	781.51	143.75	3957.3
Stddev	.6934	.646	124.	.730	23.19	.52	95.9
%RSD	11.716	2.5532	.56032	3.1333	2.9679	.36297	2.4238

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	7459.2
Stddev	216.4
%RSD	2.9008

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7807.8	10015.	97296.	12371.
Stddev	21.9	16.	180.	253.
%RSD	.28052	.16406	.18511	2.0436

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.660%	126.40%	117.11%	124.01%
Range				

Sample Name: 240-12636-d-1-a Acquired: 6/29/2012 21:48:08 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Pb only

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-27457	15249.	9.8042	8.1026	99.265	.46064	8475.2	.2723
Stddev	.39925	53.	.2474	.3545	.777	.03913	32.4	.0877
%RSD	145.41	.34593	2.5235	4.3758	.78259	8.4937	.38180	32.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.6919	19.498	23.785	20557.	1106.1	23.320	4324.2	432.65
Stddev	.2344	.360	.332	91.	20.7	1.021	7.9	7.68
%RSD	3.5020	1.8458	1.3974	.44282	1.8695	4.3783	.18259	1.7748

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7508	322.60	21.331	15.313	-4.203	4.5829	6.1199	638.00
Stddev	.0862	15.26	.468	.523	.604	2.2311	.0318	11.23
%RSD	4.9262	4.7314	2.1954	3.4170	14.38	48.684	.51895	1.7607

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12636-d-1-a Acquired: 6/29/2012 21:48:08 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.13031	41.777	77.324	1438.2	15.986
Stddev	1.5740	1.453	1.160	10.4	4.412
%RSD	1207.9	3.4771	1.4996	.72490	27.599

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9606.4	7975.8	77448.	9470.6
Stddev	100.0	81.6	1340.	37.2
%RSD	1.0408	1.0233	1.7304	.39239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.549%	100.66%	93.222%	94.929%
Range				

Sample Name: 240-12636-d-2-a Acquired: 6/29/2012 21:51:53 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Pb only

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40696	25258.	13.374	12.073	115.31	1.0458	47405.	.5952
Stddev	.15977	41.	.633	.310	.31	.0466	51.	.0787
%RSD	39.259	.16324	4.7327	2.5642	.27180	4.4604	.10727	13.22

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.662	38.849	42.009	33164.	2115.3	33.749	28042.	561.01
Stddev	.201	.227	1.207	73.	22.4	.619	75.	.99
%RSD	1.3700	.58531	2.8739	.22015	1.0581	1.8331	.26660	.17655

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5510	430.32	59.441	18.313	-4.018	3.2498	9.2878	875.96
Stddev	.1458	8.26	.195	.292	.789	.4723	.2380	2.42
%RSD	5.7138	1.9199	.32879	1.5946	19.63	14.532	2.5623	.27594

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12636-d-2-a Acquired: 6/29/2012 21:51:53 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.29080	55.073	158.87	1392.1	37.979
Stddev	1.0649	1.159	.73	14.3	1.852
%RSD	366.20	2.1040	.45867	1.0303	4.8772

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9247.1	7900.6	78095.	9555.7
Stddev	25.0	6.1	221.	3.9
%RSD	.27059	.07756	.28317	.04122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.975%	99.709%	94.001%	95.783%
Range				

Sample Name: CCV Acquired: 6/29/2012 21:55:40 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1046.9	25684.	500.07	5225.1	2040.1	2106.2	49908.	486.3
Stddev	7.0	71.	2.23	3.7	6.5	5.6	91.	1.4
%RSD	.66598	.27491	.44610	.07094	.31913	.26583	.18271	.2790

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2005.5	1930.8	2043.3	24831.	53203.	5402.5	53972.	2073.2
Stddev	1.5	8.6	8.9	65.	168.	22.5	178.	17.8
%RSD	.07717	.44557	.43597	.25994	.31610	.41680	.33009	.85715

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1938.0	54108.	2005.6	478.89	478.7	509.49	5165.0	5479.4
Stddev	2.2	126.	2.8	.19	2.4	4.05	2.3	20.9
%RSD	.11590	.23332	.13803	.03968	.5112	.79550	.04438	.38135

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 21:55:40 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1037.3	1947.5	2044.8	5067.4	5170.7
Stddev	2.4	5.2	2.3	49.9	22.7
%RSD	.23566	.26705	.11280	.98389	.43925

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8737.3	7483.3	74344.	9084.1
Stddev	9.0	12.7	253.	49.1
%RSD	.10326	.16907	.34013	.54105

Sample Name: CCB Acquired: 6/29/2012 21:59:35 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02863	27.163	2.4285	12.261	2.0920	.54784	26.936
Stddev	.30890	21.790	.9981	1.051	.4127	.07144	4.416
%RSD	1079.0	80.218	41.100	8.5730	19.726	13.040	16.394

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0765	.09382	.65257	F 8.3573	18.899	203.83	22.375
Stddev	.1007	.11024	.11094	.2238	4.051	4.73	1.979
%RSD	131.6	117.51	17.001	2.6780	21.432	2.3211	8.8460

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.136	.61377	.47599	248.84	1.0356	.54451	-2.405
Stddev	10.577	.03558	.10340	10.75	.4578	.93426	1.815
%RSD	31.918	5.7973	21.724	4.3214	44.203	171.58	75.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 6/29/2012 21:59:35 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0772	1.5146	2.9690	.13559	-.45594	.46545	-31.202
Stddev	.5271	.5064	.4203	.24553	.58194	.41483	2.978
%RSD	25.374	33.436	14.156	181.08	127.64	89.124	9.5441

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-2.1496
Stddev	3.4959
%RSD	162.63

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9617.9	7809.3	75834.	9199.0
Stddev	14.3	11.7	2462.	27.0
%RSD	.14840	.14931	3.2465	.29300

nm 1-2-12

Sample Name: 240-12636-c-3-a11240 Acquired: 6/29/2012 22:03:23 Type: Unk
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Pb only

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-53268	12330.	6.7415	10.761	65.409	65260	7833.3	4220
Stddev	.11241	69.	1.3752	.562	.461	.04907	37.1	.1666
%RSD	21.103	.56267	20.400	5.2270	.70461	7.5184	.47367	39.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.2535	20.488	21.890	17144.	1165.4	34.797	4912.8	221.16
Stddev	.1614	.170	.695	63.	30.1	1.504	36.8	1.24
%RSD	2.5813	.83095	3.1755	.36895	2.5828	4.3211	.74848	.56239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1478	366.22	22.266	11.642	-2.351	3.2426	10.065	562.33
Stddev	.1113	26.85	.540	.227	1.790	1.6701	.245	3.14
%RSD	9.6974	7.3309	2.4245	1.9460	76.12	51.506	2.4379	.55865

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12636-c-3-a 240 Acquired: 6/29/2012 22:03:23 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-61783	32.208	66.758	2219.1	11.342
Stddev	.38559	2.675	1.141	14.6	4.596
%RSD	62.411	8.3061	1.7084	.65585	40.520

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9567.9	7944.6	78811.	9436.1
Stddev	130.8	105.2	368.	46.9
%RSD	1.3673	1.3245	.46683	.49694

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.166%	100.26%	94.862%	94.584%
Range				

Sample Name: 240-12636-c-4-a Acquired: 6/29/2012 22:07:09 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Pb only

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-65040	12461.	10.661	8.8724	64.405	.76668	25674.	.3226
Stddev	.16685	79.	.769	.0389	.201	.03400	98.	.1245
%RSD	25.653	.63582	7.2107	.43896	.31152	4.4341	.38022	38.59

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.6856	23.083	34.820	22444.	1488.1	35.184	10928.	302.78
Stddev	.1493	.313	.376	72.	13.2	1.737	43.	.31
%RSD	1.7190	1.3558	1.0796	.32290	.88741	4.9370	.39070	.10134

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3220	410.40	32.398	11.059	-3.143	3.2125	12.540	642.07
Stddev	.1648	12.07	.260	.852	1.392	.4775	.208	.40
%RSD	4.9606	2.9407	.80357	7.7004	44.29	14.863	1.6581	.06278

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12636-c-4-a Acquired: 6/29/2012 22:07:09 Type: Unk
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-0.00273	41.260	72.029	1932.4	19.318
Stddev	.48698	1.372	.713	6.0	3.809
%RSD	17839.	3.3262	.98975	.31053	19.719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9500.6	8000.9	79103.	9548.2
Stddev	78.3	66.0	253.	18.2
%RSD	.82372	.82486	.31940	.19067

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.497%	100.97%	95.215%	95.707%
Range				

Sample Name: CCV Acquired: 6/29/2012 22:10:56 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1036.0	25609.	499.19	5183.1	2024.1	2115.0	50247.	484.2
Stddev	3.9	91.	2.52	9.5	4.1	2.6	37.	1.2
%RSD	.38084	.35702	.50387	.18331	.20280	.12304	.07317	.2409

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1995.9	1935.0	2026.2	24939.	53490.	5388.1	54261.	2077.2
Stddev	4.8	4.0	5.4	40.	70.	15.2	69.	6.3
%RSD	.24034	.20787	.26528	.16152	.13078	.28189	.12763	.30359

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1925.1	54002.	1997.1	478.98	477.7	506.89	5136.6	5419.2
Stddev	4.7	175.	4.1	1.47	2.1	1.01	9.4	15.3
%RSD	.24233	.32424	.20373	.30681	.4407	.19829	.18368	.28295

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 6/29/2012 22:10:56 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1029.1	1960.6	2042.2	5092.1	5161.2
Stddev	1.3	3.7	4.5	51.2	9.4
%RSD	.12843	.19056	.22097	1.0064	.18183

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8940.3	7648.5	75673.	9150.7
Stddev	17.5	13.5	195.	12.0
%RSD	.19593	.17701	.25796	.13104

Sample Name: CCB Acquired: 6/29/2012 22:14:50 Type: QC
Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.19242	36.784	2.4901	12.771	1.9807	.58139	15.439
Stddev	.32542	23.541	1.4620	1.380	.0970	.03947	2.257
%RSD	169.12	63.997	58.710	10.803	4.8981	6.7896	14.615

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0968	.32403	.53883	F 7.6109	9.8317	370.90	25.904
Stddev	.1496	.18749	.06624	.3493	.9080	32.36	1.676
%RSD	154.5	57.863	12.294	4.5891	9.2351	8.7245	6.4719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.304	.54245	.75170	231.69	.74034	.94284	-2.833
Stddev	7.178	.02958	.09940	4.55	.03499	.91169	1.053
%RSD	26.289	5.4535	13.223	1.9644	4.7268	96.696	37.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 6/29/2012 22:14:50 Type: QC
 Method: Standard Method + Strontium(v69) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4425	1.6026	2.4965	.54526	3.4500	.22931	-27.480
Stddev	.6370	.1337	.0556	.35814	1.3403	.10066	4.617
%RSD	44.155	8.3427	2.2283	65.681	38.848	43.898	16.801

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-5.9911
Stddev	3.9895
%RSD	66.589

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9692.4	7861.9	78060.	9260.2
Stddev	33.6	31.0	352.	58.9
%RSD	.34684	.39457	.45064	.63656

Test America North Canton ICP Data Review Checklist

Run/Project Information:

Run Date: 0-29-12 Analyst: njmInstrument: IA

Review Items

Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions (minimum 2 exposures/sample) and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? (ICV (2 nd source): 200.7=95-105%, 6010B 90-110%) (CCV: 90-110%)	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run at SOP or project-specific frequency? Recovered within QC limits? (project specific limits may vary)	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP limits?	✓			✓
B. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Was the internal standard(s) within acceptance criteria for all results reported?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS/MSD run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?			✓	
D. Other				
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL/LR/IEC data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

Level I Analyst: Natali J. Munnich Date: 7-2-12 Time: 10:27-22:14
 Level I Analyst: _____ Date: _____ Time: _____
 Level I Analyst: _____ Date: _____ Time: _____

Level II Reviewer: B. J. J. Date: 7.2.12 Time: 10:27-22:14
 Level II Reviewer: _____ Date: _____ Time: _____
 Level II Reviewer: _____ Date: _____ Time: _____

Comments: VOID Ba + Si 200.7

Sample Name: Blank Acquired: 7/6/2012 15:14:36 Type: Cal
Method: Standard Method + Strontium(v71) Mode: IR Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00153	.00455	.00093	.00547	.01469	.00147	.02107
Stddev	.00015	.00019	.00006	.00017	.00130	.00059	.00060
%RSD	9.7879	4.0802	6.3560	3.1562	8.8497	39.721	2.8397

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0008	.00124	.00049	-.00509	.00127	.00297	.01667
Stddev	.0001	.00026	.00003	.00005	.00033	.00077	.00085
%RSD	15.64	20.719	6.9231	.91859	25.841	25.815	5.0733

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00045	.00046	-.00054	.00407	.00407	.00029	.0019
Stddev	.00020	.00007	.00025	.00251	.00015	.00043	.0003
%RSD	44.826	14.213	46.522	61.695	3.7471	148.06	14.11

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00030	.00138	.00142	-.00158	.00200	.00282	-.00077
Stddev	.00011	.00005	.00028	.00010	.00032	.00013	.00012
%RSD	37.817	3.8190	19.631	6.3710	16.027	4.6901	15.021

Elem	Sr3464
IS Ref	(Y_3710)
Units	Cts/S
Avg	.00520
Stddev	.00073
%RSD	13.992

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9722.7	7272.5	77475.	10244.
Stddev	60.3	39.6	680.	64.
%RSD	.61979	.54488	.87798	.62941

Sample Name: SCAL1 Acquired: 7/6/2012 15:18:25 Type: Cal
Method: Standard Method + Strontium(v71) Mode: IR Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	As1890	B_1826	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.80785	.15778	6.2869	22.722	44.076	3.065	5.4328	1.7247
Stddev	.00840	.00049	.0169	.228	.808	.009	.0039	.0156
%RSD	1.0397	.30743	.26817	1.0029	1.8340	.2892	.07152	.90699

Elem	Cu3273	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960
IS Ref	(Y_3600)	(Y_3710)	(Y_3600)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.91587	11.622	9.0863	6.0901	3.4297	.55187	.1939	.15798
Stddev	.01001	.045	.0674	.0111	.0021	.00074	.0009	.00056
%RSD	1.0928	.39131	.74222	.18253	.06041	.13351	.4606	.35145

Elem	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Sr3464
IS Ref	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.0026	8.9489	.43723	.94675	7.9659	1.8243
Stddev	.0030	.0420	.00082	.00099	.0068	.0053
%RSD	.07420	.46986	.18705	.10450	.08516	.29272

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9216.5	7161.7	76327.	10231.
Stddev	12.9	2.3	201.	51.
%RSD	.13958	.03280	.26387	.49781

Sample Name: SCAL2 Acquired: 7/6/2012 15:22:34 Type: Cal
 Method: Standard Method + Strontium(v71) Mode: IR Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Al3082	Ca3179	Fe2599	K_7664	Mg2790	Na5895	Si2516
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.3055	28.188	11.243	4.6843	3.1918	18.356	.66008
Stddev	.0060	.363	.057	.0225	.0164	.066	.00271
%RSD	.46260	1.2890	.50265	.48057	.51468	.35912	.41130

Int. Std.	Y_3710
Units	Cts/S
Avg	10214.
Stddev	56.
%RSD	.55230

Sample Name: ICV Acquired: 7/6/2012 15:26:28 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	767.58	12191.	372.81	1529.5	1576.1	1536.7	25928.	372.4	1460.0
Stddev	4.11	53.	.21	2.1	4.1	4.2	65.	1.0	2.8
%RSD	.53565	.43519	.05650	.13474	.26273	.27312	.25154	.2816	.19182

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1492.6	1481.8	12501.	25008.	998.38	25206.	1493.1	1469.4	25244.
Stddev	8.8	10.3	61.	108.	3.12	124.	18.4	1.7	54.
%RSD	.58831	.69695	.49133	.43058	.31207	.49134	1.2331	.11804	.21276

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1450.6	365.83	383.7	378.76	1492.3	1528.9	743.19	1485.5	1481.0
Stddev	2.7	2.20	1.7	1.00	2.6	8.5	.91	5.5	3.6
%RSD	.18931	.60114	.4410	.26391	.17511	.55547	.12285	.37334	.24368

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: ICV Acquired: 7/6/2012 15:26:28 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	3120.5	4454.7
Stddev	5.8	18.8
%RSD	.18638	.42171

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9139.8	7125.0	75699.	10178.
Stddev	25.4	10.1	322.	55.
%RSD	.27756	.14174	.42572	.54031

Sample Name: ICB Acquired: 7/6/2012 15:30:16 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 ;
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04745	-13.747	.59961	8.8140	.18699	.05582	-.48344	.1793
Stddev	.71192	9.670	.80442	2.1397	.10393	.05890	1.6586	.2633
%RSD	1500.4	70.343	134.16	24.276	55.582	105.52	343.09	146.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0707	-.03561	.59547	1.9974	53.396	.77139	3.5077	.10539
Stddev	1.5540	.20214	.81480	.8600	40.906	1.2008	17.671	.04800
%RSD	145.14	567.70	136.83	43.056	76.608	155.67	503.78	45.540

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.93832	21.963	1.1327	.24074	3.494	.95217	1.5269	-.06102
Stddev	1.5303	8.151	1.8294	1.9056	2.815	2.2407	2.0595	.06558
%RSD	163.09	37.111	161.50	791.57	80.57	235.33	134.88	107.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB Acquired: 7/6/2012 15:30:16 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.41797	.37436	1.0088	-5.1030	-1.8240
Stddev	.48314	2.9544	1.6220	6.3139	5.2699
%RSD	115.59	789.20	160.78	123.73	288.92

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9540.2	7136.0	76418.	10084.
Stddev	122.8	88.0	262.	43.
%RSD	1.2873	1.2333	.34228	.42716

Sample Name: CRI Acquired: 7/6/2012 15:34:05 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6849	176.16	15.727	196.88	10.301	4.9500	5126.8	5.017	5.1775
Stddev	.3715	19.47	1.774	.25	.222	.0334	25.2	.155	.5205
%RSD	7.9288	11.050	11.282	.12568	2.1544	.67464	.49209	3.092	10.054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.3283	14.940	304.00	5055.0	48.208	5244.5	14.887	10.188	5131.4
Stddev	.1705	.740	2.00	13.7	.986	9.9	.073	.424	5.9
%RSD	3.9395	4.9535	.65928	.27063	2.0462	.18862	.48777	4.1600	.11437

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.346	10.141	11.14	20.976	97.012	50.581	15.079	7.8213	37.456
Stddev	.368	.443	1.06	.873	.178	.199	.639	1.3184	.291
%RSD	1.5777	4.3714	9.557	4.1632	.18308	.39362	4.2403	16.857	.77708

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CRI Acquired: 7/6/2012 15:34:05 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	515.07	43.660
Stddev	8.65	6.308
%RSD	1.6787	14.447

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9767.2	7309.7	76775.	10205.
Stddev	11.0	16.5	125.	66.
%RSD	.11264	.22547	.16263	.64739

Sample Name: CRILL Acquired: 7/6/2012 15:37:47 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7999	159.36	9.7968	195.22	202.95	4.9535	5095.8	2.080	6.3552
Stddev	.3837	17.31	.4539	1.34	.66	.0188	10.3	.117	.1977
%RSD	7.9943	10.864	4.6328	.68752	.32315	.37891	.20227	5.618	3.1111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.3746	24.651	101.98	5071.9	48.893	5146.8	14.997	9.7548	5103.0
Stddev	.1171	.188	1.83	8.8	.555	26.2	.099	.1989	13.4
%RSD	2.6757	.76325	1.7986	.17372	1.1351	.50857	.66065	2.0393	.26175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.308	3.0309	9.661	4.1625	96.431	50.567	10.390	4.9201	18.152
Stddev	.360	.6110	.472	1.5657	.698	.304	.699	.5390	.137
%RSD	.96431	20.159	4.889	37.614	.72387	.60172	6.7236	10.955	.75219

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CRILL Acquired: 7/6/2012 15:37:47 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	508.11	45.682
Stddev	4.43	2.876
%RSD	.87129	6.2948

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9812.1	7329.4	77581.	10411.
Stddev	40.4	25.6	239.	21.
%RSD	.41177	.34990	.30866	.19727

Sample Name: ICSA Acquired: 7/6/2012 15:41:30 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12534	522270.	-1.8019	-3.1169	.35916	-.26972	501690.
Stddev	.12040	1265.	1.8768	.1480	.02777	.03626	3415.
%RSD	96.057	.24219	104.15	4.7494	7.7316	13.444	.68071

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5199	-1.3698	2.7753	2.5496	194530.	-21.481	-6.8002
Stddev	.0341	.3973	.4269	1.4992	1513.	30.643	.4106
%RSD	6.567	29.008	15.383	58.801	.77759	142.65	6.0386

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	509190.	.79826	-1.5028	84.708	1.0529	1.3435	-3.480
Stddev	1666.	.05073	.2063	15.998	.2853	1.0509	1.531
%RSD	.32722	6.3555	13.726	18.886	27.097	78.223	44.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 7/6/2012 15:41:30 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9020	3.8488	-6.1662	-1.7084	-1.7968	5.9289	-5.1508
Stddev	1.7438	.9331	.08572	1.4181	1.9253	.1198	6.3251
%RSD	91.684	24.244	13.901	83.006	107.15	2.0200	122.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2.2718
Stddev	7.1416
%RSD	314.36

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7941.5	6546.8	67261.	9983.2
Stddev	10.9	16.2	190.	50.4
%RSD	.13779	.24716	.28178	.50478

Sample Name: ICSAB Acquired: 7/6/2012 15:45:26 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1069.1	511720.	970.77	499.43	515.95	493.33	491350.
Stddev	7.1	2359.	26.19	12.12	2.77	2.30	3269.
%RSD	.66692	.46096	2.6982	2.4273	.53713	.46584	.66531

Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	981.8	467.04	489.60	515.25	192250.	10465.	509.61
Stddev	21.6	11.02	2.77	3.44	2205.	49.	2.83
%RSD	2.203	2.3594	.56647	.66800	1.1471	.47100	.55556

Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	497840.	489.73	931.49	10578.	926.99	877.72	1002.
Stddev	2869.	3.13	19.84	48.	20.61	16.27	21.
%RSD	.57632	.63888	2.1297	.45619	2.2231	1.8541	2.070

Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Sample Name: ICSAB Acquired: 7/6/2012 15:45:26 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	960.02	494.18	510.21	934.26	481.01	955.52	9936.3
Stddev	24.69	10.31	3.61	19.16	2.99	20.95	43.5
%RSD	2.5715	2.0870	.70689	2.0509	.62060	2.1921	.43757

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1427.6
Stddev	4.2
%RSD	.29763

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7939.1	6607.2	67385.	9998.0
Stddev	112.9	86.7	303.	35.9
%RSD	1.4227	1.3122	.45000	.35880

Sample Name: CCV Acquired: 7/6/2012 15:49:22 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1000.3	25474.	502.49	5040.5	1965.0	2011.6	51072.	499.7	1956.7
Stddev	10.3	80.	3.50	26.2	7.2	20.1	192.	3.8	7.5
%RSD	1.0253	.31393	.69669	.51953	.36453	.99739	.37642	.7546	.38433

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1958.2	1958.9	25824.	50185.	4973.3	50390.	1951.1	1971.0	50888.
Stddev	18.7	20.7	126.	162.	21.9	153.	12.3	10.4	227.
%RSD	.95545	1.0572	.48954	.32195	.43989	.30325	.62984	.52509	.44616

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1956.1	482.41	501.4	505.04	4965.9	5051.2	993.49	1973.7	1983.2
Stddev	6.8	2.91	3.7	3.14	14.4	43.0	4.36	9.2	6.1
%RSD	.34600	.60301	.7320	.62134	.29013	.85222	.43873	.46821	.30941

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 15:49:22 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	5036.9	4904.7
Stddev	21.8	18.2
%RSD	.43213	.37044

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8863.4	7045.8	74098.	10155.
Stddev	36.5	42.3	359.	19.
%RSD	.41128	.60073	.48501	.18256

Sample Name: CCB Acquired: 7/6/2012 15:53:23 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

ALch

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10257	143.45	-.99440	12.286	.99456	F 1.2122	199.45
Stddev	.40343	205.17	1.0009	1.484	1.2691	1.3785	224.40
%RSD	393.31	143.03	100.66	12.076	127.61	113.72	112.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.0000	

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0173	.10325	-.30589	-.00664	81.923	69.384	4.5905
Stddev	.1253	.05741	.10411	.76884	89.760	76.458	2.0830
%RSD	726.0	55.607	34.035	11577.	109.57	110.20	45.376

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	209.59	-.02987	.12220	62.352	-.38830	-.43610	-.4563
Stddev	231.43	.05018	.04475	42.712	.24415	.52687	.1542
%RSD	110.42	167.99	36.621	68.501	62.876	120.81	33.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/6/2012 15:53:23 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39853	.23137	.07391	.81457	.45928	-.52322	2.7283
Stddev	1.4215	.21893	.15744	.19144	1.8309	.02185	12.305
%RSD	356.67	94.620	213.01	23.502	398.63	4.1763	450.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1.5118
Stddev	5.8949
%RSD	389.92

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9771.8	7284.1	77499.	10363.
Stddev	69.6	43.7	194.	53.
%RSD	.71202	.60030	.25032	.51576

Sample Name: As 5 ppm Acquired: 7/6/2012 15:57:11 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-25799	-63.850	4879.6	-1.2289	.03711	-.06897	-52.071	-.1813
Stddev	.28846	12.255	9.1	.2991	.14408	.01147	1.439	.2548
%RSD	111.81	19.194	.18644	24.337	388.29	16.634	2.7632	140.5

Check ?	None	None	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02305	-.53280	-.09293	-.49420	-1.3753	-2.0117	10.491	-.10739
Stddev	.06548	.07049	1.2220	.54407	24.273	.3960	14.811	.01508
%RSD	284.02	13.231	1314.9	110.09	1765.0	19.684	141.18	14.046

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16209	-9.3362	-.87206	.08934	.3503	-1.2512	-.42222	-.30172
Stddev	.02323	6.4205	.23119	.89478	.7637	.2498	.24222	.15308
%RSD	14.329	68.770	26.510	1001.6	218.0	19.968	57.368	50.735

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: As 5 ppm Acquired: 7/6/2012 15:57:11 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3139	-.20014	-.57498	3.9059	-2.3572
Stddev	.2080	1.4885	.06879	2.4212	3.0885
%RSD	15.828	743.73	11.963	61.990	131.02

Check ?	None	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10181.	7441.7	80456.	10578.
Stddev	26.	18.6	1160.	19.
%RSD	.25712	.25029	1.4423	.17766

Sample Name: Ti 30 ppm Acquired: 7/6/2012 16:00:57 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24046	-12.822	-.40648	-1.9649	-.07240	.04554	-53.035	.2307
Stddev	.12683	26.683	1.3347	.1182	.21693	.03077	2.000	.0362
%RSD	52.744	208.11	328.36	6.0173	299.64	67.561	3.7703	15.68

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0637	.59797	6.6494	-3.5024	-1.0393	-1.7738	-10.367	-.16486
Stddev	.6400	.33344	1.1414	.3536	14.847	.1812	3.247	.02565
%RSD	60.163	55.762	17.165	10.096	1428.5	10.213	31.316	15.559

Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17131	-30.762	-1.4682	-2.3831	.3625	-.01052	2.0274	29163.
Stddev	.07973	10.821	.3654	.7455	1.639	.44164	.4091	222.
%RSD	46.542	35.177	24.885	31.283	452.1	4198.8	20.176	.76055

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: Ti 30 ppm Acquired: 7/6/2012 16:00:57 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 ;
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.8021	-.16436	-.97206	526.64	-4.3917
Stddev	.5304	1.4934	.04490	54.50	3.7445
%RSD	18.929	908.58	4.6185	10.348	85.263

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int.,Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10083.	7457.9	79360.	10578.
Stddev	13.	13.7	382.	70.
%RSD	.13195	.18404	.48161	.65893

Sample Name: Co 10 ppm Acquired: 7/6/2012 16:04:51 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05580	-37.455	-.00826	-3.6621	.01547	-.03583	-53.467	.1868
Stddev	.32410	10.909	.36043	.3078	.16677	.05078	1.128	.1123
%RSD	580.81	29.125	4365.8	8.4057	1077.7	141.70	2.1103	60.15

Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9593.7	-.44173	.60453	-1.7155	-36.112	-.72893	1.1977	-.23959
Stddev	62.6	.25728	.65096	.7181	24.507	2.5214	6.3058	.03227
%RSD	.65250	58.244	107.68	41.860	67.862	345.90	526.48	13.467

Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11435	-41.709	-.97592	-.75772	1.015	-.09524	-.12992	3.6585
Stddev	.07153	6.217	.23877	.16555	.638	.79208	.24267	1.1501
%RSD	62.554	14.907	24.466	21.849	62.83	831.65	186.78	31.438

Check ?	None	None	Chk Pass	None	Chk Pass	None	None	None
Value								
Range								

Sample Name: Co 10 ppm Acquired: 7/6/2012 16:04:51 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-8.5404	-.64061	-.05897	19.454	-8.1170
Stddev	1.1891	.26572	.06322	2.977	5.9634
%RSD	13.923	41.480	107.21	15.300	73.468

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9994.8	7356.7	79829.	10756.
Stddev	57.1	48.1	245.	18.
%RSD	.57132	.65348	.30704	.16534

Sample Name: Al 500 ppm Acquired: 7/6/2012 16:08:37 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-35879	498820.	.00215	-3.8844	-.20147	-.00398	-51.385
Stddev	.36498	1014.	1.4301	.0507	.13319	.05218	.630
%RSD	101.72	.20333	66665.	1.3040	66.109	1311.6	1.2260

Check ?	None	None	Chk Pass	None	None	None	None
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1113	.51728	-.61426	1.1276	1.4072	-8.8410	-.62155
Stddev	.0520	.04157	.27099	.6947	.3310	30.701	.90862
%RSD	46.73	8.0358	44.117	61.611	23.521	347.26	146.19

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3697	-.42072	-.66585	-27.252	-.07597	.21351	-2.066
Stddev	8.8381	.03379	.08241	8.636	.15226	.62092	.591
%RSD	645.27	8.0318	12.377	31.692	200.42	290.81	28.59

Check ?	None	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: Al 500 ppm Acquired: 7/6/2012 16:08:37 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7803	2.6124	-.08996	-2.3971	-1.9610	1.6168	3.4584
Stddev	3.5169	.0669	.20127	.5542	.5730	.2217	2.2591
%RSD	197.55	2.5624	223.74	23.121	29.222	13.711	65.321

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-3.8103
Stddev	3.8670
%RSD	101.49

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9396.6	7368.9	73499.	10758.
Stddev	8.6	4.8	147.	7.
%RSD	.09107	.06545	.19948	.06535

Sample Name: Fe 500 ppm Acquired: 7/6/2012 16:12:17 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.73242	9.1771	-2.7903	-5.3828	-.35050	-.00898	-66.018
Stddev	.34979	28.908	1.5735	.1020	.27125	.02533	1.346
%RSD	47.758	315.00	56.393	1.8950	77.389	281.96	2.0393

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.164	1.9066	2.5491	.00126	482810.	-254.82	-1.6783
Stddev	.095	.0763	.1855	.33869	3144.	19.78	.6790
%RSD	8.151	4.0029	7.2761	26862.	.65127	7.7636	40.460

Check ?	Chk Pass	None	None	Chk Pass	None	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-157.80	5.7963	-1.6244	-29.430	-3.4563	.14824	2.348
Stddev	2.52	.0362	.0360	7.581	.5571	.70832	.300
%RSD	1.5961	.62450	2.2187	25.761	16.117	477.82	12.78

Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: Fe 500 ppm Acquired: 7/6/2012 16:12:17 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.9232	1.9219	.85450	5.0038	.28692	4.7401	-27.183
Stddev	.4625	.1239	.22556	.7502	.73974	.0154	2.621
%RSD	15.821	6.4459	26.397	14.993	257.82	.32418	9.6411

Check ?	None	None	None	None	Chk Pass	None	None
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	7.4461
Stddev	6.6274
%RSD	89.004

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9671.3	7344.3	77330.	10581.
Stddev	43.7	36.5	244.	64.
%RSD	.45147	.49693	.31549	.60309

Sample Name: V 5 ppm Acquired: 7/6/2012 16:16:12 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0369	-73.875	.24172	-5.7853	.17152	-.31921	-53.534	.3161
Stddev	.5349	9.265	1.0833	.0942	.32830	.03237	2.908	.0335
%RSD	51.582	12.542	448.18	1.6281	191.41	10.141	5.4311	10.59

Check ?	None	Chk Pass	None	None	None	Chk Pass	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00260	-.91788	-.12962	30.604	-62.405	-3.9375	-1.5888	-.18416
Stddev	.03103	.23165	.17671	4.366	19.297	1.3472	3.3708	.04140
%RSD	1193.8	25.238	136.33	14.267	30.922	34.214	212.16	22.481

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65493	-53.154	-.60105	-.21828	-1.553	-.27226	-.29469	-.44521
Stddev	.04609	10.963	.29882	1.4669	1.940	2.2737	.16616	.20917
%RSD	7.0371	20.626	49.716	672.02	124.9	835.15	56.384	46.982

Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Sample Name: V 5 ppm Acquired: 7/6/2012 16:16:12 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-3.37931	4859.6	-1.0403	4.9847	-3.5598
Stddev	.61828	30.9	.0993	3.6560	3.4633
%RSD	163.00	.63589	9.5465	73.346	97.289

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10034.	7431.9	79957.	10757.
Stddev	40.	30.5	533.	37.
%RSD	.39550	.41043	.66699	.34733

Sample Name: CRI Acquired: 7/6/2012 16:19:59 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *6010 C*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.5865	159.53	13.358	193.41	201.46	4.8776	5007.9
Stddev	.3686	7.59	1.066	1.21	1.04	.0293	26.4
%RSD	3.8454	4.7565	7.9795	.62484	.51412	.60155	.52794

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.915	9.2127	9.2094	19.296	212.86	4901.1	F -.66152
Stddev	.055	.0616	.3391	.865	2.61	65.4	1.2082
%RSD	1.113	.66812	3.6822	4.4821	1.2253	1.3351	182.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							50.000
Range							-30.500%

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5032.9	14.511	39.716	5031.9	37.141	9.5544	19.82
Stddev	35.6	.081	.352	17.6	.323	1.3731	1.49
%RSD	.70744	.55524	.88641	.35041	.86988	14.371	7.513

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 7/6/2012 16:19:59 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.442	94.346	49.054	19.417	10.591	45.684	F 9.9701
Stddev	.634	.056	.078	.325	.542	.305	1.5259
%RSD	3.4366	.05917	.15922	1.6738	5.1181	.66717	15.304

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							500.00
Range							-30.500%

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-1.9041
Stddev	2.1749
%RSD	114.22

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9718.7	7226.6	77906.	10477.
Stddev	38.7	21.9	274.	29.
%RSD	.39832	.30241	.35157	.27365

Sample Name: mb 240-49868/1-b Acquired: 7/6/2012 16:23:42 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16717	-12.806	-.53456	.42951	.84170	-.01610	206.91	-.0579
Stddev	.41393	8.528	1.0404	.16454	.04170	.01684	1.87	.1416
%RSD	247.61	66.594	194.62	38.308	4.9543	104.57	.90278	244.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11361	-.51941	.87178	26.844	15.398	-2.5689	54.803	.16091
Stddev	.25130	.31357	.77472	1.942	48.706	1.6213	5.085	.00676
%RSD	221.20	60.371	88.867	7.2347	316.32	63.113	9.2792	4.2007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02085	28.313	-.38949	.23772	-.3366	-1.7479	-.00385	.70102
Stddev	.12398	9.160	.24324	.52478	2.449	1.7295	.40711	.31171
%RSD	594.64	32.354	62.450	220.76	727.7	98.950	10562.	44.465

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-49868/1-b Acquired: 7/6/2012 16:23:42 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2967	.10512	7.4827	11.340	-6.8716
Stddev	.4234	1.3555	.0674	5.313	4.3733
%RSD	32.654	1289.4	.90017	46.854	63.643

SiO₂

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9861.7	7362.2	80482.	11066.
Stddev	33.5	13.8	759.	97.
%RSD	.33922	.18767	.94368	.88023

Sample Name: lcs 240-49871/2-a Acquired: 7/6/2012 16:27:30 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.622	2002.5	2010.4	1039.6	2066.3	49.412	51514.	50.77	482.18
Stddev	.805	18.0	12.2	7.4	6.4	.110	151.	.27	2.88
%RSD	1.5591	.89860	.60822	.70985	.31185	.22270	.29271	.5398	.59726

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	195.63	246.51	1036.7	50687.	1000.0	50539.	496.64	986.02	51365.
Stddev	.49	1.18	4.3	227.	3.7	147.	.90	6.68	104.
%RSD	.24974	.48005	.41753	.44708	.36986	.29059	.18026	.67794	.20174

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	482.02	482.82	529.0	2065.1	1980.2	1035.0	1951.8	490.01	503.59
Stddev	2.66	1.34	3.6	14.5	10.3	3.2	10.3	.63	2.73
%RSD	.55117	.27673	.6887	.70449	.51785	.30916	.52918	.12843	.54249

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: lcs 240-49871/2-a Acquired: 7/6/2012 16:27:30 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	1055.9	980.04
Stddev	3.8	3.89
%RSD	.35554	.39641

SiO2

Check ? Chk Pass Chk Pass
 Value
 Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9085.1	7050.6	75090.	10466.
Stddev	32.9	25.6	208.	18.
%RSD	.36212	.36261	.27724	.16906

Sample Name: 240-12877-a-2-a Acquired: 7/6/2012 16:31:07 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	<u>Ag</u> 3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.0557	7.6424	3.0288	514.78	82.594	-.59786
Stddev	.48264	9.7034	.6771	.63	.792	.05854
%RSD	68.405	126.97	22.355	.12298	.95868	9.7922

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	<u>Cd</u> 2288	Co2286	<u>Cr</u> 2677	<i>RL</i> Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 834940.	.0732	.58594	26.651	7.2286	34.694
Stddev	1632.	.0527	.13406	.106	.9449	1.328
%RSD	.19542	72.05	22.879	.39734	13.071	3.8268

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	500000.					
Low Limit	-500000.					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	150780.	914.29	6665.0	15.328	14.747	F 1262300.
Stddev	134.	.91	17.9	.060	.180	62904.
%RSD	.08856	.10006	.26913	.39092	1.2220	4.9832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12877-a-2-a Acquired: 7/6/2012 16:31:07 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	194.28	-1.9130	-6.490	-1.9576	10.033	-.95511
Stddev	.74	.5429	2.525	2.1522	.335	.11192
%RSD	.38287	28.378	38.90	109.94	3.3350	11.718

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.4579	-.38178	152.31	2300.9	14649.
Stddev	1.7729	.32355	.36	10.3	57.
%RSD	51.272	84.748	.23328	.44913	.38896

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7679.9	6331.7	66739.	10153.
Stddev	16.9	10.1	28.	47.
%RSD	.22062	.16025	.04156	.46224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.990%	87.063%	86.143%	99.119%
Range				

Sample Name: CCV Acquired: 7/6/2012 16:35:12 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	989.97	25134.	499.60	5022.1	1946.6	1949.6	50228.	498.4	1949.1
Stddev	15.19	395.	2.97	40.0	28.8	16.7	713.	3.8	14.8
%RSD	1.5344	1.5721	.59538	.79633	1.4788	.85506	1.4199	.7605	.75753

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1932.1	1948.8	25088.	49589.	4880.6	48674.	1924.8	1960.5	48813.
Stddev	31.6	33.9	375.	744.	78.9	697.	24.6	14.1	1167.
%RSD	1.6367	1.7374	1.4930	1.4998	1.6158	1.4322	1.2757	.72133	2.3904

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1944.6	481.40	497.9	498.87	4920.1	5024.1	984.60	1942.3	1965.9
Stddev	15.6	4.24	2.1	3.41	38.7	68.6	8.06	32.1	15.1
%RSD	.80329	.88107	.4155	.68282	.78650	1.3661	.81851	1.6526	.76953

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 16:35:12 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4984.6	4818.1
Stddev	58.7	81.2
%RSD	1.1769	1.6855

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8848.1	7017.6	75463.	10400.
Stddev	44.2	31.8	561.	50.
%RSD	.49907	.45320	.74343	.47601

Sample Name: CCB Acquired: 7/6/2012 16:39:13 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11190	-30.556	-1.5018	12.911	-.03592	.16540	-1.0949	.1783
Stddev	.69803	20.384	.6980	1.252	.11620	.08418	7.6165	.0817
%RSD	623.77	66.712	46.482	9.7005	323.54	50.893	695.63	45.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31451	-.53971	1.2346	2.4582	172.41	3.7086	6.3982	-.05758
Stddev	.79033	.30799	.1573	.7706	36.80	1.2962	16.129	.00257
%RSD	251.29	57.066	12.738	31.346	21.345	34.951	252.08	4.4716

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.59256	252.56	.20321	.86987	-.1548	2.2274	1.4027	-.19740
Stddev	1.0076	22.63	.63741	1.1979	1.935	1.7942	2.0423	.21187
%RSD	170.04	8.9582	313.67	137.71	1250.	80.553	145.60	107.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/6/2012 16:39:13 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.56118	-.43112	-.29989	-4.4575	-2.6245
Stddev	.43685	1.2507	.79530	5.5135	3.3214
%RSD	77.845	290.12	265.20	123.69	126.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9723.0	7253.6	78381.	10643.
Stddev	17.1	16.4	301.	246.
%RSD	.17548	.22562	.38356	2.3134

Sample Name: 240-12935-a-1-a Acquired: 7/6/2012 16:43:03 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-48873	-3.4110	1.1852	1014.8	21.823	.00420
Stddev	.20787	31.217	1.0870	3.7	.280	.00892
%RSD	42.534	915.20	91.718	.35992	1.2812	212.15

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8537.5	-.0960	.06912	.04118	.78208	56.486
Stddev	49.7	.0716	.18994	.27871	.85623	.980
%RSD	.58233	74.63	274.80	676.84	109.48	1.7346

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16887.	47.919	3761.3	14.149	.49727	F 1018200.
Stddev	114.	3.256	10.9	.062	.06541	9760.
%RSD	.67644	6.7937	.29089	.43782	13.153	.95858

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12935-a-1-a Acquired: 7/6/2012 16:43:03 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11767	1.0577	1.070	-.48922	.78764	-.23543
Stddev	.16597	1.1445	.801	1.2945	.34679	.17397
%RSD	141.05	108.21	74.85	264.60	44.029	73.898

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.6267	-.30177	1.3030	3513.4	872.59
Stddev	.3429	1.1077	.0925	22.2	9.08
%RSD	21.083	367.07	7.0950	.63281	1.0411

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8351.8	6686.7	69037.	10290.
Stddev	8.7	15.2	209.	23.
%RSD	.10390	.22749	.30335	.22006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.900%	91.944%	89.109%	100.45%
Range				

Sample Name: 240-12935-a-2-a Acquired: 7/6/2012 16:46:56 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12519	239.06	1.0277	161.90	2144.0	-.07332	121480.
Stddev	.14540	9.00	.7634	.15	2.5	.03637	948.
%RSD	116.14	3.7632	74.283	.09018	.11875	49.598	.78032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0949	.31569	1.1429	3.4665	1712.6	8371.1	26.270
Stddev	.1164	.18444	.1436	.8534	3.6	24.3	.450
%RSD	122.7	58.425	12.563	24.617	.20999	.29066	1.7138

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units.	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20270.	265.53	.15020	37770.	1.3141	1.3550	-.8110
Stddev	59.	.55	.14415	150.	.0819	.3512	1.656
%RSD	.29159	.20832	95.974	.39588	6.2298	25.917	204.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12935-a-2-a Acquired: 7/6/2012 16:46:56 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75432	.37664	4.2102	1.5642	-.20984	11.358	5620.1
Stddev	.45487	.31941	.6223	.6190	.81509	.035	16.4
%RSD	60.302	84.806	14.781	39.575	388.43	.30821	.29123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	677.34
Stddev	7.19
%RSD	1.0614

Check ?	Chk Pass
High Limit	
Low Limit	


Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9202.5	7068.0	75400.	10483.
Stddev	9.8	9.6	163.	29.
%RSD	.10696	.13558	.21643	.28070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.650%	97.187%	97.322%	102.34%
Range				

Sample Name: 240-12935-a-3-a Acquired: 7/6/2012 16:50:49 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.76954	16.478	7.3681	860.60	777.11	-.06107	17420.
Stddev	.24729	30.311	.6796	5.66	16.63	.02701	367.
%RSD	32.135	183.95	9.2242	.65793	2.1398	44.220	2.1062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	 K 7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1314	.17237	.03144	2.0473	1386.2	47068.	109.33
Stddev	.0871	.24743	.07577	.7225	31.8	997.	3.02
%RSD	66.25	143.55	241.03	35.292	2.2910	2.1187	2.7639

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2717.3	82.569	2.7575	F 519200.	1.1011	1.3416	3.586
Stddev	73.6	.216	.1205	10386.	.1436	.8512	1.463
%RSD	2.7073	.26170	4.3689	2.0004	13.042	63.449	40.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				500000.			
Low Limit				-500000.			

Sample Name: 240-12935-a-3-a Acquired: 7/6/2012 16:50:49 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-67929	.29542	2.0528	1.7377	.90727	2.2883	7433.3
Stddev	1.8068	.30366	.2742	.5352	1.3735	.0393	141.4
%RSD	265.98	102.79	13.359	30.800	151.39	1.7160	1.9021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	265.72
Stddev	4.28
%RSD	1.6115

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8637.1	6848.1	71107.	10292.
Stddev	37.0	30.9	179.	146.
%RSD	.42807	.45148	.25157	1.4175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.834%	94.164%	91.780%	100.47%
Range				

Sample Name: 240-12935-a-4-a Acquired: 7/6/2012 16:54:42 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.13829	-36.987	6.5928	887.45	167.32	-.07597	11116.
Stddev	.31669	22.428	1.3822	1.62	.40	.03833	9.
%RSD	229.00	60.636	20.965	.18206	.23718	50.454	.08393

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0298	.00645	-.27492	1.1735	323.07	5549.1	20.948
Stddev	.1457	.07250	.18746	.9099	1.12	13.7	.218
%RSD	489.4	1124.1	68.188	77.535	.34653	.24733	1.0412

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3477.5	41.778	4.4860	160000.	.08608	.05251	.7572
Stddev	26.4	.199	.2585	1629.	.23573	.19935	.7524
%RSD	.75935	.47729	5.7619	1.0181	273.84	379.65	99.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12935-a-4-a Acquired: 7/6/2012 16:54:42 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9393	.14089	-.01780	2.4067	-1.0477	.43368	4739.7
Stddev	.5209	.10221	.21347	.3967	2.3022	.05464	8.6
%RSD	26.860	72.549	1199.2	16.481	219.74	12.599	.18147

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	135.40
Stddev	4.25
%RSD	3.1413

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9257.7	7084.2	74661.	10288.
Stddev	21.8	24.0	177.	32.
%RSD	.23591	.33899	.23746	.30844

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.218%	97.410%	96.368%	100.43%
Range				

Sample Name: 240-12779-c-1-a Acquired: 7/6/2012 16:58:35 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-21896	137.60	4.5070	594.70	126.28	-13425	177370.
Stddev	.56532	6.69	1.3210	2.94	.20	.04894	2756.
%RSD	258.18	4.8625	29.311	.49431	.15957	36.458	1.5538

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8495	.80768	1.2005	5.2465	320.63	13067.	27.166
Stddev	.1730	.60959	.1615	.7499	1.29	62.	.647
%RSD	20.36	75.474	13.449	14.294	.40363	.47210	2.3808

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32630.	59.471	4.0259	159350.	13.968	1.7864	.0615
Stddev	38.	.156	.2964	2956.	.323	1.8382	1.844
%RSD	.11714	.26263	7.3622	1.8552	2.3094	102.90	3000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12779-c-1-a Acquired: 7/6/2012 16:58:35 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	<u>Tl1908</u>	<u>V_2908</u>	<u>Zn2062</u>	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09212	1.9162	2.5616	2.1957	-1.0016	45.862	11527.
Stddev	.98768	.5901	.2569	.9995	2.3575	.296	10.
%RSD	1072.2	30.795	10.030	45.520	235.37	.64453	.08976

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	742.43
Stddev	3.08
%RSD	.41430

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8853.1	6860.6	72666.	10345.
Stddev	20.2	14.6	209.	59.
%RSD	.22765	.21241	.28759	.56996

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.057%	94.336%	93.793%	100.99%
Range				

Sample Name: 240-12779-c-2-a Acquired: 7/6/2012 17:02:36 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-21281	269.52	2.4892	426.37	418.50	-08842	198150.
Stddev	.50147	18.31	.1656	9.76	4.02	.01990	626.
%RSD	235.64	6.7952	6.6544	2.2883	.96099	22.508	.31597

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3158	.33950	2.9637	7.0570	2987.5	11084.	30.421
Stddev	.1383	.34261	.2113	.2831	19.2	102.	.580
%RSD	43.79	100.91	7.1297	4.0110	.64425	.92383	1.9051

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2816	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30796.	390.97	-14382	144000.	3.1130	36.666	-8409
Stddev	171.	.87	.12319	1835.	.3116	1.179	1.986
%RSD	.55511	.22280	85.653	1.2744	10.010	3.2158	236.2

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12779-c-2-a Acquired: 7/6/2012 17:02:36 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-89663	6.6690	7.5568	2.6188	.31799	37.342	12654.
Stddev	1.1484	.5567	.1492	.7147	1.3959	.826	83.
%RSD	128.08	8.3480	1.9739	27.291	438.97	2.2117	.65352

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	752.11
Stddev	9.30
%RSD	1.2360

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8895.2	6923.0	73410.	10430.
Stddev	153.5	119.9	224.	39.
%RSD	1.7250	1.7315	.30502	.37573

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.489%	95.194%	94.753%	101.82%
Range				

Sample Name: mb 240-49940/1-a Acquired: 7/6/2012 17:06:37 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31335	-26.410	.39607	-.57172	.65012	-.04852	149.77	-.0650
Stddev	.17738	20.577	.25161	.08002	.13815	.05292	3.51	.1073
%RSD	56.607	77.912	63.527	13.997	21.250	109.06	2.3425	165.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07003	-.65209	1.2097	6.4237	98.824	.19656	42.001	.24728
Stddev	.27755	.16000	.2924	1.2344	13.928	1.1379	5.816	.02768
%RSD	396.35	24.537	24.173	19.217	14.094	578.91	13.847	11.195

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02508	274.82	-.63772	.57039	-.6894	.40592	-.25404	-.30992
Stddev	.06820	23.08	.14108	1.2304	.8497	.59230	.26251	.06466
%RSD	271.95	8.3973	22.123	215.71	123.3	145.91	103.34	20.864

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-49940/1-a Acquired: 7/6/2012 17:06:37 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.0141	-.94594	10.006	6.1161	-6.1549
Stddev	.5829	1.1108	.087	4.3451	3.2217
%RSD	57.485	117.43	.86812	71.044	52.344

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9850.1	7368.9	78921.	10650.
Stddev	61.8	48.3	114.	140.
%RSD	.62751	.65511	.14395	1.3182

Sample Name: lcs 240-49940/2-a Acquired: 7/6/2012 17:10:25 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.872	1968.0	2005.4	1040.7	2068.8	49.558	51121.	50.53	482.15
Stddev	.734	9.8	35.5	19.9	13.3	.360	262.	.89	8.49
%RSD	1.4147	.49892	1.7720	1.9140	.64319	.72589	.51180	1.768	1.7601

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	195.78	250.18	1030.6	50724.	1003.0	50553.	499.83	982.99	50796.
Stddev	.31	1.23	3.4	316.	8.2	304.	2.15	18.10	347.
%RSD	.15949	.49268	.32603	.62375	.81972	.60131	.43080	1.8413	.68262

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	482.04	482.48	527.3	2069.0	1984.1	1045.2	1955.6	492.54	502.13
Stddev	8.57	7.81	10.0	39.7	35.9	4.5	34.2	4.86	8.93
%RSD	1.7769	1.6186	1.898	1.9184	1.8082	.43132	1.7513	.98611	1.7782

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: Ics 240-49940/2-a Acquired: 7/6/2012 17:10:25 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	1048.4	972.70
Stddev	10.0	3.90
%RSD	.95285	.40065

Check ? Chk Pass Chk Pass
 Value
 Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9072.6	7062.5	75205.	10493.
Stddev	127.0	96.6	76.	51.
%RSD	1.3993	1.3673	.10158	.49033

Sample Name: 240-12870-a-2-d Acquired: 7/6/2012 17:14:03 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.08990	253.62	1.4233	80.923	52.265	-0.07984	84631.	.2217
Stddev	.55148	19.93	.5858	.786	.721	.02058	1603.	.0946
%RSD	613.46	7.8600	41.155	.97182	1.3787	25.771	1.8941	42.69

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29476	8.8951	2.9184	421.07	2916.5	2.7251	23921.	19.196
Stddev	.17834	.4382	.1027	9.72	42.4	1.1278	469.	.285
%RSD	60.504	4.9266	3.5208	2.3076	1.4530	41.387	1.9595	1.4869

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4863	28386.	6.2210	.16639	-1.143	.23592	.09216	8.1892
Stddev	.1106	474.	.2062	1.4272	2.297	1.8029	.42457	.5278
%RSD	4.4477	1.6694	3.3142	857.74	200.9	764.21	460.69	6.4452

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12870-a-2-d Acquired: 7/6/2012 17:14:03 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.5371	1.0730	5.4814	5012.5	174.55
Stddev	1.1807	1.4495	.0287	83.0	5.01
%RSD	76.817	135.08	.52429	1.6553	2.8696

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9337.7	7160.3	75980.	10680.
Stddev	29.0	26.5	870.	158.
%RSD	.31069	.37032	1.1448	1.4834

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.040%	98.456%	98.070%	104.26%
Range				

Sample Name: SD 240-12870-a-2-d@5 Acquired: 7/6/2012 17:17:56 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24878	7.2951	-.74171	13.295	10.515	-.01968	17344.	.1210
Stddev	.35808	15.809	1.1911	.119	.132	.05020	41.	.1818
%RSD	143.93	216.71	160.59	.89877	1.2543	255.07	.23376	150.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04980	1.3048	.73370	86.266	647.54	-.05222	4954.0	3.7889
Stddev	.25274	.1708	.97069	2.166	51.25	1.1169	21.6	.0184
%RSD	507.50	13.088	132.30	2.5108	7.9142	2139.0	.43551	.48435

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37094	5855.4	.78313	.34348	-.2902	.94293	-.28227	1.2680
Stddev	.07702	13.8	.29261	1.1740	1.710	1.2042	.02308	.0187
%RSD	20.764	.23494	37.364	341.78	589.1	127.71	8.1783	1.4723

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-12870-a-2-d@5 Acquired: 7/6/2012 17:17:56 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.54451	-.90946	1.9899	1014.6	31.973
Stddev	.09464	1.1420	.0925	.2	4.012
%RSD	17.381	125.57	4.6472	.01544	12.547

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9732.0	7275.7	77838.	10531.
Stddev	56.8	44.9	187.	57.
%RSD	.58393	.61679	.24052	.53979

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.10%	100.04%	100.47%	102.80%
Range				

Sample Name: CCV Acquired: 7/6/2012 17:21:45 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem.	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1010.4	25467.	494.66	5001.3	1977.7	2016.3	50765.	490.6	1932.8
Stddev	4.0	58.	15.61	150.3	1.1	7.5	55.	15.3	60.4
%RSD	.39187	.22849	3.1550	3.0052	.05376	.37074	.10817	3.112	3.1260

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem.	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1956.7	1982.2	25779.	50290.	4996.6	50158.	1961.5	1943.7	50463.
Stddev	7.4	7.1	75.	52.	10.0	184.	5.4	57.6	160.
%RSD	.37717	.35796	.29116	.10339	.20022	.36617	.27532	2.9647	.31792

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1930.9	474.40	491.5	495.16	4905.9	5109.2	981.29	1969.1	1956.1
Stddev	59.3	14.02	17.3	14.91	151.9	23.6	29.44	1.8	58.1
%RSD	3.0712	2.9556	3.521	3.0111	3.0968	.46122	3.0005	.09131	2.9677

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 17:21:45 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	5021.0	4896.1
Stddev	13.0	15.9
%RSD	.25892	.32554

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8875.6	7068.6	74229.	10227.
Stddev	154.4	109.5	136.	32.
%RSD	1.7398	1.5488	.18361	.31590

Sample Name: CCB Acquired: 7/6/2012 17:25:46 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39802	-15.551	-.36808	11.009	.33715	.13622	-6.7412	-.0846
Stddev	.21345	7.404	.48779	1.474	.14663	.13881	3.8171	.0310
%RSD	53.629	47.610	132.52	13.386	43.489	101.90	56.623	36.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00095	-.19934	.63761	1.0189	90.495	1.5128	5.3822	-.05756
Stddev	.13385	.24094	.30777	.6205	29.732	.7842	13.043	.03140
%RSD	14059.	120.87	48.269	60.902	32.855	51.837	242.34	54.555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02462	96.386	-.33270	.71535	.3847	.71901	-.35658	-.07016
Stddev	.10416	16.934	.06806	.62065	2.246	1.2164	.14433	.36708
%RSD	422.98	17.569	20.457	86.761	583.6	169.18	40.478	523.22

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/6/2012 17:25:46 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.14427	-1.2609	-.74371	3.5001	-6.1814
Stddev	.94944	.1367	.01468	5.0721	4.6086
%RSD	658.09	10.845	1.9732	144.91	74.555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9733.3	7263.6	78167.	10367.
Stddev	8.9	12.8	568.	2.
%RSD	.09153	.17590	.72718	.02072

Sample Name: 240-12870-a-2-e ms Acquired: 7/6/2012 17:29:35 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 : *5x done in prep on ms/msd*
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.341	2098.4	2034.0	1074.2	2147.0	50.903	69752.	51.13	487.37
Stddev	.477	51.5	32.3	17.0	40.6	.818	1230.	.72	5.95
%RSD	.89357	2.4534	1.5896	1.5798	1.8901	1.6077	1.7627	1.402	1.2213

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	200.04	251.29	1129.8	52906.	1030.2	56559.	507.54	1000.4	58114.
Stddev	.32	.54	19.0	940.	16.7	1034.	.37	14.6	1122.
%RSD	.16058	.21656	1.6844	1.7776	1.6257	1.8277	.07351	1.4562	1.9300

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	487.37	486.64	535.4	2088.9	2006.2	1057.0	1969.4	506.20	493.05
Stddev	6.39	6.29	7.7	34.0	26.8	2.4	27.6	8.23	5.88
%RSD	1.3111	1.2935	1.435	1.6258	1.3361	.23092	1.4012	1.6258	1.1919

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12870-a-2-e ms Acquired: 7/6/2012 17:29:35 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	2098.0	1031.8
Stddev	34.6	16.8
%RSD	1.6501	1.6300

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9026.7	7026.9	75029.	10287.
Stddev	49.2	45.0	152.	155.
%RSD	.54475	.63994	.20304	1.5109

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.842%	96.622%	96.842%	100.42%
Range				

Sample Name: 240-12870-a-2-f msd Acquired: 7/6/2012 17:33:13 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.886	2081.9	2063.4	1089.9	2129.3	50.536	69072.	51.60	493.47
Stddev	.257	40.8	8.6	3.9	1.8	.200	31.	.41	2.12
%RSD	.48606	1.9592	.41562	.35898	.08483	.39630	.04537	.8001	.42870

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	200.52	252.87	1123.5	52531.	1025.9	56198.	509.55	1014.0	57688.
Stddev	.28	.45	2.7	42.	2.9	176.	.26	3.8	122.
%RSD	.13748	.17925	.23823	.07995	.28627	.31366	.05147	.37780	.21193

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493.17	492.47	540.1	2120.0	2035.0	1063.0	1999.8	503.32	500.45
Stddev	2.85	1.63	1.6	10.0	8.3	1.0	7.7	1.82	2.52
%RSD	.57766	.33071	.3016	.47384	.40674	.09735	.38523	.36135	.50440

Not needed for 412

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12870-a-2-f msd Acquired: 7/6/2012 17:33:13 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	2084.3	1029.6
Stddev	4.9	4.3
%RSD	.23338	.41968

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9030.0	7039.8	75349.	10493.
Stddev	44.6	29.2	52.	23.
%RSD	.49403	.41531	.06965	.21558

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.875%	96.801%	97.255%	102.43%
Range				

Sample Name: 240-12672-j-3-a Acquired: 7/6/2012 17:36:50 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280 (Y_3600)	Al3082 (Y_3710)	As1890 (Y_2243)	B_1826 (Y_2243)	Ba4554 (Y_3710)	Be3130 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62.437	879.01	89.477	F 67015.	200.02	.06736
Stddev	.510	22.63	2.637	1422.	2.91	.06347
%RSD	.81654	2.5747	2.9469	2.1213	1.4545	94.237

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20000.		
Low Limit				-500000.		

Elem	Ca3179 (Y_3710)	Cd2288 (Y_2243)	Co2286 (In2306)	Cr2677 (Y_3600)	Cu3273 (Y_3600)	Fe2599 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 542190.	F 19290.	915.63	27.580	3094.3	375.43
Stddev	4349.	487.	16.86	.206	9.2	4.70
%RSD	.80212	2.525	1.8415	.74699	.29887	1.2517

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	500000.	2000.				
Low Limit	-500000.	-500000.				

Elem	K_7664 (Y_3710)	Li6707 (Y_3710)	Mg2790 (Y_3710)	Mn2576 (Y_3600)	Mo2020 (Y_2243)	Na5895 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 4824400.	19217.	431370.	14723.	445.01	^ *****
Stddev	96409.	69.	1566.	90.	8.54	-----
%RSD	1.9984	.35997	.36309	.61228	1.9186	-----

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	500000.					
Low Limit	-500000.					

Sample Name: 240-12672-j-3-a Acquired: 7/6/2012 17:36:50 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

	<i>RL</i>	<i>RL</i>	<i>RL</i>	<i>RL</i>		
Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	681.42	4611.2	2512.	1038.6	87.781	195.11
Stddev	11.91	68.3	66.	25.5	1.106	.65
%RSD	1.7476	1.4821	2.626	2.4553	1.2603	.33539

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

	<i>RL</i>	<i>RL</i>	<i>RL</i>		
Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	418.46	17.297	F 208290.	18363.	3973.6
Stddev	6.93	1.281	1598.	51.	11.4
%RSD	1.6568	7.4057	.76737	.27568	.28621

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			10000.		
Low Limit			-500000.		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	W 4336.5	W 3940.1	W 42020.	8389.6
Stddev	53.7	40.7	139.	48.4
%RSD	1.2384	1.0340	.32980	.57746

Check ?	Chk Warn	Chk Warn	Chk Warn	Chk Pass
Value	44.602%	54.177%	54.237%	81.902%
Range	-30.500%	-30.500%	-30.500%	

Sample Name: 240-12870-a-1-b Acquired: 7/6/2012 17:41:09 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-20127	82.655	80265	207.02	57.309	-10026	115330.
Stddev	.19999	12.004	.66050	3.52	.164	.05292	1383.
%RSD	99.365	14.523	82.290	1.6985	.28570	52.784	1.1990

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8260	.63545	.58061	2.3433	247.61	12362.	14.553
Stddev	.1725	.10643	.16902	.4922	1.40	883.	1.581
%RSD	20.88	16.749	29.111	21.005	.56579	7.1447	10.860

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33275.	25.741	.25145	33381.	.82992	.51408	-2.390
Stddev	132.	3.759	.07467	1334.	.30385	.90446	1.921
%RSD	.39722	14.604	29.695	3.9968	36.612	175.94	80.37

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12870-a-1-b Acquired: 7/6/2012 17:41:09 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.9032	.25879	2.6766	2.3901	-.22166	17.404	5126.6
Stddev	1.2391	.10252	.3066	.3853	2.2031	3.722	12.2
%RSD	31.745	39.616	11.456	16.121	993.90	21.388	.23795

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	242.62
Stddev	3.46
%RSD	1.4278

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9272.5	7169.2	74647.	10643.
Stddev	164.7	120.9	1931.	76.
%RSD	1.7765	1.6865	2.5866	.71167

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.370%	98.580%	96.350%	103.90%
Range				

Sample Name: 240-12870-a-3-b Acquired: 7/6/2012 17:45:02 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00246	-4.0948	.45527	167.33	58.010	-.06642	95172.	.1815
Stddev	.42686	16.740	.39715	1.51	.377	.02396	178.	.1668
%RSD	17386.	408.80	87.233	.90010	.65073	36.067	.18701	91.90

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05533	.97780	1.5198	28.611	6300.7	6.8670	28978.	1.8729
Stddev	.08615	.20943	.4955	.912	93.7	1.8056	104.	.0546
%RSD	155.72	21.418	32.602	3.1859	1.4879	26.294	.35834	2.9145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.48663	36671.	.40228	.13822	-3.113	3.2650	.11028	.11000
Stddev	.04479	290.	.42095	.68704	1.403	1.2164	.36760	.05236
%RSD	9.2032	.79074	104.64	497.07	45.07	37.257	333.32	47.597

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12870-a-3-b Acquired: 7/6/2012 17:45:02 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.2143	-1.7531	8.3909	5137.0	158.39
Stddev	.6583	1.3726	1.4209	5.9	.70
%RSD	29.730	78.296	16.934	.11475	.43948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9204.4	7084.2	76785.	10571.
Stddev	10.8	12.7	1116.	27.
%RSD	.11742	.17903	1.4537	.25369

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.670%	97.411%	99.109%	103.20%
Range				

Sample Name: 240-12870-a-4-b Acquired: 7/6/2012 17:48:55 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-26884	21.592	1.0372	124.91	62.498	-1.2029	96368.	.2743
Stddev	.13363	15.843	1.2715	1.58	.630	.02604	600.	.0966
%RSD	49.707	73.377	122.58	1.2637	1.0075	21.648	.62245	35.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15601	1.6554	1.1736	337.72	5251.1	7.1816	29283.	5.9121
Stddev	.14571	.1033	.5947	3.95	83.9	1.2831	228.	.0211
%RSD	93.398	6.2392	50.677	1.1685	1.5979	17.866	.77856	.35650

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3156	34687.	1.0008	.22774	.0073	1.8210	.09909	1.0556
Stddev	.1419	299.	.2120	.99180	1.625	2.2360	.25861	.3116
%RSD	10.782	.86274	21.179	435.50	22270.	122.79	260.98	29.516

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12870-a-4-b Acquired: 7/6/2012 17:48:55 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.0979	-2.4346	3.5786	5173.8	172.18
Stddev	.5152	3.4889	2.1991	39.3	3.40
%RSD	24.556	143.30	61.450	.75916	1.9741

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9189.1	7058.4	75490.	10478.
Stddev	53.4	45.0	82.	35.
%RSD	.58064	.63712	.10920	.33627

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.512%	97.056%	97.438%	102.29%
Range				

Sample Name: 240-12870-a-5-b Acquired: 7/6/2012 17:52:48 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.19125	4.1981	1.1640	129.06	60.788	-.09230	105630.
Stddev	.53492	11.248	.0243	.99	.092	.04228	934.
%RSD	279.69	267.92	2.0891	.76761	.15146	45.807	.88420

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2060	-.08198	1.3851	2.0127	80.458	4259.3	4.1285
Stddev	.1040	.05762	.2090	.9923	.224	43.0	.5219
%RSD	50.49	70.286	15.087	49.302	.27857	1.0106	12.640

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30322.	9.8016	1.2039	37294.	1.2334	.65742	.2456
Stddev	12.	.1178	.1798	360.	.4358	1.4912	.8031
%RSD	.04102	1.2017	14.936	.96447	35.335	226.83	327.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12870-a-5-b Acquired: 7/6/2012 17:52:48 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 ;
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2677	-.13619	.85178	1.4832	-1.3816	6.5814	5019.5
Stddev	2.0344	.15590	.09749	.6041	.0473	.0391	17.2
%RSD	160.48	114.47	11.445	40.729	3.4236	.59408	.34309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	207.22
Stddev	2.72
%RSD	1.3135

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9195.6	7094.7	76243.	10575.
Stddev.	6.5	11.8	170.	28.
%RSD	.07026	.16621	.22311	.26231

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.579%	97.555%	98.410%	103.23%
Range				

Sample Name: 240-12870-a-6-b Acquired: 7/6/2012 17:56:41 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33607	472.31	1.8308	142.68	60.379	-.07722	124730.
Stddev	.65608	16.79	1.7404	1.22	.780	.03836	328.
%RSD	195.22	3.5558	95.062	.85528	1.2919	49.678	.26317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3795	.40987	6.2346	2.7327	541.76	4073.0	2.0592
Stddev	.1051	.22775	.3366	.9427	5.57	156.7	1.5072
%RSD	27.71	55.566	5.3983	34.497	1.0290	3.8480	73.193

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35674.	33.524	4.7049	35504.	4.5525	.39875	-2.079
Stddev	340.	.024	.0749	1098.	.0408	.66953	1.512
%RSD	.95312	.07100	1.5922	3.0928	.89741	167.91	72.73

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12870-a-6-b Acquired: 7/6/2012 17:56:41 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2936	.18063	14.704	2.2985	.34588	3.6087	5933.8
Stddev	1.6241	.17042	.378	.8941	1.0130	.0537	63.9
%RSD	125.54	94.347	2.5673	38.898	292.88	1.4873	1.0776

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	287.57
Stddev	4.64
%RSD	1.6124

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9171.7	7080.3	75597.	10472.
Stddev	46.0	37.8	207.	123.
%RSD	.50199	.53412	.27417	1.1711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.334%	97.356%	97.576%	102.23%
Range				

Sample Name: 240-12870-a-7-b Acquired: 7/6/2012 18:00:34 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23289	102.08	2.5432	136.12	84.876	-.06523	134620.
Stddev	.04070	7.54	.7414	1.07	.843	.01962	825.
%RSD	17.475	7.3863	29.154	.78760	.99301	30.082	.61260

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3274	.36526	4.1523	2.2122	317.29	5069.2	.94937
Stddev	.0796	.22201	.1136	.4500	4.37	48.2	.78070
%RSD	24.31	60.782	2.7366	20.339	1.3767	.95144	82.233

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39560.	21.663	7.9791	94587.	2.9064	.23145	-.7049
Stddev	500.	.060	.0460	797.	.2572	.76478	.1641
%RSD	1.2648	.27755	.57674	.84289	8.8496	330.43	23.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12870-a-7-b Acquired: 7/6/2012 18:00:34 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.88547	.22590	3.4251	1.4951	-1.0666	1.7193	5139.2
Stddev	.28658	.25277	.4099	.2399	.3534	.0609	55.9
%RSD	32.365	111.89	11.967	16.047	33.129	3.5395	1.0876

Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Sr3464 (Y_3710)
Units	ppb
Avg	280.57
Stddev	7.91
%RSD	2.8188

Check ? High Limit Low Limit	Chk Pass
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Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9008.5	6969.5	74502.	10549.
Stddev	61.0	43.9	90.	81.
%RSD	.67683	.62922	.12096	.76868

Check ? Value Range	Chk Pass 92.655%	Chk Pass 95.833%	Chk Pass 96.162%	Chk Pass 102.98%
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Sample Name: 240-12870-a-8-b Acquired: 7/6/2012 18:04:27 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.04809	175.58	1.3743	111.15	54.772	-0.08772	107520.
Stddev	.11373	7.09	.5649	3.26	.742	.05102	1185.
%RSD	236.50	4.0355	41.102	2.9367	1.3539	58.163	1.1020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.019	.38630	11.993	2.7365	413.52	4323.0	1.9177
Stddev	.640	.11067	.197	.8791	7.60	502.1	2.9350
%RSD	62.82	28.649	1.6428	32.126	1.8369	11.615	153.05

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29188.	23.644	4.7538	34759.	9.3453	.59894	-1.234
Stddev	454.	.572	.2073	2751.	.2801	.61551	.545
%RSD	1.5560	2.4179	4.3600	7.9148	2.9972	102.77	44.16

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12870-a-8-b Acquired: 7/6/2012 18:04:27 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3363	.38087	5.4625	2.0636	.09372	20.014	5147.9
Stddev	1.9140	.48917	.3617	.6038	2.3537	17.411	96.0
%RSD	143.23	128.43	6.6212	29.262	2511.5	86.992	1.8653

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	217.89
Stddev	8.37
%RSD	3.8427

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9224.8	7102.7	76073.	10570.
Stddev	34.3	23.4	119.	47.
%RSD	.37132	.32994	.15683	.44137

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.880%	97.665%	98.190%	103.19%
Range				

Sample Name: CCV Acquired: 7/6/2012 18:08:23 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1003.6	25277.	497.83	5021.5	1973.1	2011.0	50292.	493.5	1937.2
Stddev	5.2	153.	12.72	126.1	9.7	23.9	289.	12.5	49.7
%RSD	.51648	.60625	2.5549	2.5116	.48920	1.1892	.57539	2.530	2.5667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1940.0	1976.1	25581.	50871.	5052.6	49411.	1953.4	1948.4	49839.
Stddev	14.8	13.0	64.	133.	13.1	73.	14.4	49.5	129.
%RSD	.76322	.65734	.24931	.26169	.25951	.14758	.73590	2.5422	.25913

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1929.9	477.00	495.3	499.18	4908.1	5124.8	981.35	1959.3	1951.9
Stddev	47.2	11.02	14.9	13.03	124.1	59.0	23.44	8.4	49.3
%RSD	2.4469	2.3093	3.001	2.6096	2.5294	1.1506	2.3883	.42797	2.5283

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 18:08:23 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4954.9	4877.7
Stddev	26.8	28.2
%RSD	.54004	.57825

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8866.5	7058.9	74897.	10459.
Stddev	141.0	113.6	468.	38.
%RSD	1.5903	1.6090	.62506	.36357

Sample Name: CCB Acquired: 7/6/2012 18:12:24 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19444	-38.184	-1.0764	17.448	.25232	.38377	.81679
Stddev	.26654	6.155	1.2830	1.411	.25789	.27775	9.1619
%RSD	137.08	16.119	119.19	8.0849	102.21	72.374	1121.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0108	-.14167	-.44865	1.4883	5.9183	619.83	2.0178
Stddev	.0469	.08094	.17101	.0708	5.7765	58.60	1.8563
%RSD	434.1	57.133	38.117	4.7554	97.604	9.4545	91.996

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.217	.02313	.20903	F 1111.2	-.30761	.57741	-.1100
Stddev	9.881	.06302	.14780	41.6	.30192	.20136	3.099
%RSD	48.875	272.48	70.710	3.7396	98.150	34.873	2817.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				1000.0			
Low Limit				-1000.0			

Sample Name: CCB Acquired: 7/6/2012 18:12:24 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.28651	.05004	.09263	.62335	.89327	-.30500	5.2589
Stddev	.85147	.26295	.14877	.18861	1.4566	.05364	3.1708
%RSD	297.18	525.43	160.60	30.257	163.07	17.587	60.295

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-1.1644
Stddev	3.6048
%RSD	309.60

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9716.6	7269.4	77828.	10531.
Stddev	115.6	94.0	43.	207.
%RSD	1.1899	1.2933	.05538	1.9615

Sample Name: 240-12870-a-9-b Acquired: 7/6/2012 18:16:14 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.43352	68.509	1.7893	135.03	85.608	-.05589	135090.
Stddev	.23599	13.899	2.5744	.72	.510	.05114	1121.
%RSD	54.437	20.288	143.88	.53588	.59557	91.507	.83009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2753	.15372	2.6649	2.4797	204.35	4675.8	2.7019
Stddev	.1642	.07204	.2931	.4641	1.82	41.0	1.1790
%RSD	59.65	46.862	10.999	18.715	.89237	.87770	43.636

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40026.	17.727	7.8147	99137.	2.0438	.39560	-1.337
Stddev	68.	.240	.0521	374.	.1391	.55293	1.340
%RSD	.17010	1.3528	.66615	.37728	6.8057	139.77	100.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12870-a-9-b Acquired: 7/6/2012 18:16:14 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5096	.32755	2.0111	2.2812	-2.8430	1.3859	5107.4
Stddev	.8522	.22734	.0673	.4399	.8490	.0686	6.2
%RSD	56.453	69.406	3.3477	19.285	29.865	4.9531	.12143

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	277.76
Stddev	2.96
%RSD	1.0666

Check ? Chk Pass
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8967.9	6964.0	74899.	10430.
Stddev	3.3	1.8	1022.	51.
%RSD	.03718	.02626	1.3649	.48619

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 Value 92.237% 95.757% 96.675% 101.82%
 Range

Sample Name: 240-12870-a-10-b Acquired: 7/6/2012 18:20:07 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02012	-5.4472	.80436	5.6734	.70223	-.02069	1480.9	-.0567
Stddev	.07931	10.660	1.7809	.5431	.10283	.09853	11.5	.0985
%RSD	394.28	195.70	221.41	9.5726	14.644	476.11	.77601	173.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11722	.83722	.85539	95.324	480.50	.34941	474.68	8.9085
Stddev	.12113	.25904	.66139	1.678	21.68	2.1459	10.57	.0280
%RSD	103.34	30.941	77.321	1.7603	4.5116	614.13	2.2276	.31481

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04292	3271.5	1.8366	.21982	-1.190	-.67977	-.00969	.29346
Stddev	.08917	46.3	.4598	.89357	1.771	1.2462	.19065	.03302
%RSD	207.75	1.4155	25.037	406.51	148.8	183.33	1967.1	11.253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12870-a-10-b Acquired: 7/6/2012 18:20:07 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.96823	-1.0267	4.2054	54.552	-7.2016
Stddev	.37135	.3411	.1528	2.137	.5788
%RSD	38.354	33.222	3.6335	3.9172	8.0371

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9942.8	7364.7	78922.	10618.
Stddev	101.5	79.7	275.	48.
%RSD	1.0205	1.0825	.34812	.45204

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.26%	101.27%	101.87%	103.65%
Range				

Sample Name: 240-12929-b-4-a Acquired: 7/6/2012 18:23:54 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21572	-32.303	4.1217	96.540	48.700	-.10852	109330.
Stddev	.30676	9.410	.3929	.260	.135	.04468	1108.
%RSD	142.20	29.130	9.5331	.26975	.27647	41.173	1.0130

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3471	-.04670	.63968	3.9441	13.646	7030.9	41.552
Stddev	.0287	.16445	.18016	.2487	.807	16.4	1.022
%RSD	8.268	352.12	28.164	6.3066	5.9137	.23321	2.4604

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35038.	149.73	62.311	81666.	8.5690	5.4238	.1740
Stddev	36.	.09	.120	91.	.1971	.8213	1.580
%RSD	.10203	.05997	.19236	.11136	2.2998	15.142	907.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12929-b-4-a Acquired: 7/6/2012 18:23:54 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	<u>Zn2062</u>	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03928	.11877	-.39277	2.5854	1.6420	34.315	6263.5
Stddev	.57086	.03506	.07867	.5128	2.2261	.108	22.5
%RSD	1453.3	29.517	20.029	19.835	135.57	.31444	.35917

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	207.82
Stddev	1.38
%RSD	.66234

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9166.2	7043.1	75691.	10552.
Stddev	22.6	17.7	66.	26.
%RSD	.24609	.25135	.08655	.24594

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.277%	96.845%	97.697%	103.01%
Range				

Sample Name: 240-12930-c-7-a Acquired: 7/6/2012 18:27:47 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-12147	528.40	2.9202	293.93	38.177	-.03933	62605.
Stddev	.29146	12.35	.7115	2.47	.120	.03719	97.
%RSD	239.93	2.3369	24.365	.84009	.31361	94.556	.15529

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3711	.84754	1.0856	6.8053	846.78	14066.	11.006
Stddev	.0926	.05872	.2897	.8617	2.91	61.	3.094
%RSD	24.96	6.9279	26.686	12.662	.34327	.43550	28.109

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17605.	69.736	26.680	164470.	6.7919	1.7963	-.0583
Stddev	73.	.100	.170	309.	.1396	.8676	.3014
%RSD	.41535	.14278	.63834	.18806	2.0549	48.298	517.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12930-c-7-a Acquired: 7/6/2012 18:27:47 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1160	.17489	9.0501	2.3498	2.4250	14.355	1461.3
Stddev	1.2152	.30056	1.0394	1.0439	1.3733	.100	5.1
%RSD	108.89	171.86	11.485	44.426	56.632	.69449	.34908

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	251.51
Stddev	.39
%RSD	.15411

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9113.9	7065.2	74875.	10499.
Stddev	33.1	31.2	95.	48.
%RSD	.36367	.44173	.12643	.45998

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.739%	97.149%	96.643%	102.49%
Range				

Sample Name: 240-12930-b-8-a Acquired: 7/6/2012 18:31:40 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48502	294.62	3.1305	318.53	37.700	-.02898	65734.
Stddev	.25814	14.64	.5896	2.45	.231	.01467	97.
%RSD	53.222	4.9702	18.834	.76871	.61194	50.615	.14702

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	<u>Cu3273</u>	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2837	.74855	.56807	4.9387	453.71	14958.	13.166
Stddev	.0728	.21406	.19630	.6704	2.13	19.	.701
%RSD	25.65	28.597	34.556	13.574	.46914	.12834	5.3218

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18036.	43.972	31.083	172620.	7.1935	1.5367	1.077
Stddev	52.	.951	.281	1488.	.2253	.5343	2.102
%RSD	.28611	2.1617	.90377	.86174	3.1316	34.768	195.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12930-b-8-a Acquired: 7/6/2012 18:31:40 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9489	.09320	5.5222	2.0872	1.1537	8.2365	1127.7
Stddev	1.0377	.27157	.7188	.4274	1.2432	.0748	4.0
%RSD	53.246	291.37	13.017	20.476	107.75	.90804	.35882

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	257.99
Stddev	4.93
%RSD	1.9108

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9067.5	7023.6	74950.	10496.
Stddev	35.8	22.4	877.	48.
%RSD	.39446	.31874	1.1697	.46149

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.261%	96.577%	96.741%	102.47%
Range				

Sample Name: 240-12930-b-9-a Acquired: 7/6/2012 18:35:33 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23715	1143.2	2.8762	316.02	43.899	.23982	65436.
Stddev	.69308	32.2	.6006	5.19	.270	.18083	33.
%RSD	292.26	2.8180	20.880	1.6414	.61435	75.402	.05024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	<u>Cu3273</u>	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5893	1.2599	2.6036	8.6485	1725.2	15094.	13.005
Stddev	.2235	.4287	.2644	.7509	4.7	39.	.533
%RSD	37.92	34.025	10.154	8.6822	.26999	.25711	4.0990

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18438.	121.52	26.874	175730.	7.8844	2.8371	1.266
Stddev	50.	1.17	.549	655.	.2232	.2914	2.389
%RSD	.27011	.96616	2.0428	.37273	2.8312	10.271	188.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12930-b-9-a Acquired: 7/6/2012 18:35:33 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64329	.50112	19.163	2.2642	2.3040	21.217	2223.5
Stddev	.59241	.15863	1.509	.0636	2.6676	.804	10.1
%RSD	92.092	31.656	7.8749	2.8110	115.78	3.7905	.45407

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	258.66
Stddev	6.74
%RSD	2.6055

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9123.3	7083.0	75251.	10529.
Stddev	110.7	88.6	346.	49.
%RSD	1.2131	1.2515	.45956	.46599

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.835%	97.394%	97.130%	102.78%
Range				

Sample Name: 240-12930-b-10-a Acquired: 7/6/2012 18:39:25 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-43350	299.56	3.5510	299.63	26.511	-.05373	77684.
Stddev	.19523	22.29	.9995	.39	.117	.05126	247.
%RSD	45.036	7.4398	28.146	.12856	.44211	95.410	.31752

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4520	.67370	2.6704	6.9537	1317.9	14404.	19.704
Stddev	.1039	.16062	.1974	.7745	6.5	62.	.257
%RSD	22.98	23.841	7.3913	11.138	.49126	.42836	1.3035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14649.	103.30	118.93	132680.	20.651	4.3778	6.719
Stddev	34.	.17	.21	1713.	.428	.8064	.471
%RSD	.23134	.16379	.17790	1.2911	2.0730	18.419	7.006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12930-b-10-a Acquired: 7/6/2012 18:39:25 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17744	-.02775	.87860	1.8963	.16559	8.2951	2459.1
Stddev	.51015	.29616	.58779	.4047	1.1191	.0950	19.4
%RSD	287.50	1067.3	66.901	21.339	675.82	1.1449	.78751

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	299.03
Stddev	6.39
%RSD	2.1375

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9120.4	7028.4	74885.	10502.
Stddev	7.8	6.4	117.	113.
%RSD	.08499	.09120	.15599	1.0787

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.806%	96.643%	96.657%	102.52%
Range				

Sample Name: 240-12783-b-3-a@5 Acquired: 7/6/2012 18:43:18 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01840	4.4867	2.2285	6.7592	62.999	-.09213	53016.
Stddev	.29112	18.762	1.0967	.1585	.250	.04572	91.
%RSD	1581.9	418.16	49.214	2.3445	.39632	49.622	.17096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1157	-.03293	.11586	1.8527	1339.5	2276.7	8.1992
Stddev	.1628	.23219	.29154	1.4447	2.4	15.0	1.2451
%RSD	140.8	705.06	251.64	77.978	.18096	.65742	15.186

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14350.	23.412	1.6723	378870.	.56239	.53941	1.720
Stddev	34.	.858	.0571	3101.	.07162	1.1422	.717
%RSD	.23733	3.6627	3.4161	.81850	12.735	211.75	41.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12783-b-3-a@5 Acquired: 7/6/2012 18:43:18 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7341	.44969	.62114	1.0670	.54348	1.0370	1873.2
Stddev	.4868	.15981	.11069	.4224	2.7044	.0212	6.5
%RSD	28.069	35.539	17.820	39.586	497.60	2.0424	.34551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	116.53
Stddev	.20
%RSD	.16992

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8629.7	6795.4	72233.	10032.
Stddev	17.4	14.0	1852.	43.
%RSD	.20188	.20533	2.5641	.42416

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.759%	93.439%	93.233%	97.937%
Range				

Sample Name: 240-12783-b-4-a@5 Acquired: 7/6/2012 18:47:13 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-32911	-46.507	.63924	6.3766	18.167	-.04572	13776.
Stddev	.45160	11.813	1.3783	.3930	.301	.02557	15.
%RSD	137.22	25.401	215.61	6.1625	1.6592	55.913	.10942

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1018	.14388	-.27563	1.7924	8.5093	918.90	2.2786
Stddev	.1327	.17723	.23306	.5668	1.9925	10.72	1.0325
%RSD	130.4	123.18	84.553	31.623	23.415	1.1666	45.312

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3695.3	18.516	1.3356	127240.	.24461	.20908	.2236
Stddev	16.7	.096	.1499	635.	.40752	.16865	.6599
%RSD	.45188	.51859	11.221	.49917	166.60	80.663	295.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12783-b-4-a@5 Acquired: 7/6/2012 18:47:13 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35624	-.22743	-.04775	1.0696	-.71881	.53814	1245.5
Stddev	1.6567	.15789	.03670	.2752	1.3807	.06044	2.7
%RSD	465.04	69.421	76.865	25.727	192.08	11.231	.21862

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	22.053
Stddev	3.477
%RSD	15.768

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9125.0	6957.6	73869.	10242.
Stddev	5.5	9.7	229.	61.
%RSD	.06034	.13898	.31058	.59427

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.853%	95.669%	95.346%	99.982%
Range				

Sample Name: 240-12783-b-5-a@5 Acquired: 7/6/2012 18:51:08 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-20995	-32.088	.90984	5.5640	17.736	-.04801	13722.
Stddev	.14774	28.402	.71189	.2384	.390	.01913	359.
%RSD	70.367	88.515	78.244	4.2849	2.1981	39.836	2.6168

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0796	.31102	-.12511	2.0992	8.8838	863.79	1.6041
Stddev	.0634	.05234	.23321	.7774	1.6732	30.65	.9550
%RSD	79.65	16.827	186.40	37.036	18.834	3.5484	59.533

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	<u>Na5895</u>	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3669.9	17.776	1.0224	127640.	.09094	.41009	-.7776
Stddev	102.0	.018	.1038	3704.	.07435	1.0502	.7005
%RSD	2.7799	.10096	10.148	2.9022	81.750	256.10	90.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12783-b-5-a@5 Acquired: 7/6/2012 18:51:08 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.62810	-.06167	-.20757	1.6078	.76680	.82687	1237.8
Stddev	.48998	.05686	.20446	.3342	1.9994	.06757	31.4
%RSD	78.010	92.195	98.502	20.789	260.74	8.1720	2.5392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	20.393
Stddev	5.069
%RSD	24.856

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9164.9	7019.1	74020.	10298.
Stddev	32.4	29.6	97.	258.
%RSD	.35402	.42133	.13100	2.5037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.263%	96.515%	95.541%	100.53%
Range				

Sample Name: CCV Acquired: 7/6/2012 18:55:05 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1007.0	25293.	505.15	5103.7	1977.7	2017.5	50304.	501.8	1974.1
Stddev	6.8	46.	.89	12.0	3.3	3.8	120.	.5	1.9
%RSD	.67064	.18083	.17603	.23549	.16796	.18604	.23876	.0996	.09755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1946.7	1973.0	25637.	50715.	5051.1	49528.	1960.0	1982.6	50545.
Stddev	7.5	13.4	61.	184.	10.3	190.	6.0	1.6	247.
%RSD	.38523	.68017	.23869	.36210	.20331	.38261	.30817	.08240	.48921

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1967.6	484.33	501.2	507.10	5004.7	5117.9	999.67	1954.1	1994.3
Stddev	1.0	1.91	3.0	.71	2.9	46.9	.42	5.6	1.0
%RSD	.05085	.39486	.5985	.14090	.05801	.91625	.04198	.28750	.05244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 18:55:05 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4957.3	4870.6
Stddev	15.9	9.7
%RSD	.32030	.19821

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8656.1	6899.5	73697.	10169.
Stddev	12.6	11.6	31.	103.
%RSD	.14503	.16880	.04243	1.0107

Sample Name: CCB Acquired: 7/6/2012 18:58:59 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-42876	-17.069	-.03875	11.511	.09407	.19665	-.25643	-.0187
Stddev	.37243	8.185	1.0845	1.133	.28486	.09412	3.6995	.0936
%RSD	86.863	47.956	2798.9	9.8426	302.82	47.862	1442.7	500.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02216	-.33136	2.8003	2.3310	248.25	-1.1932	3.9057	.02177
Stddev	.11976	.19803	.4784	1.4998	52.00	.6253	5.2046	.01706
%RSD	540.47	59.761	17.085	64.344	20.947	52.406	133.26	78.361

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14227	508.55	-.34794	1.1381	-1.265	.01237	.09866	.11856
Stddev	.10976	14.24	.06452	1.6249	1.209	.16850	.45174	.17447
%RSD	77.150	2.7993	18.543	142.77	95.52	1362.3	457.90	147.16

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/6/2012 18:58:59 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2828	.36477	-.32515	-1.7809	-4.6503
Stddev	.7291	2.1498	.01434	3.3937	8.2966
%RSD	56.839	589.37	4.4102	190.56	178.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9669.3	7230.2	77493.	10231.
Stddev	19.8	11.6	265.	48.
%RSD	.20451	.16108	.34164	.46653

Sample Name: 240-12801-e-1-e@5 Acquired: 7/6/2012 19:02:49 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *Ncm matrix*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06459	-43.859	22.655	51.867	342.58	-.26176	378220.
Stddev	.26623	4.644	1.114	.803	1.12	.02555	4336.
%RSD	412.17	10.589	4.9176	1.5474	.32771	9.7626	1.1464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5682	.29706	.39721	4.5694	6.0612	4723.2	-3.8035
Stddev	.1586	.14586	.27178	.4799	1.6673	34.3	1.3789
%RSD	27.92	49.101	68.421	10.502	27.507	.72547	36.254

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17144.	470.05	.88338	1342.7	2.6177	9.7026	-1.896
Stddev	9.	.35	.01645	9.8	.2848	1.1613	2.115
%RSD	.05027	.07432	1.8627	.72975	10.878	11.969	111.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12801-e-1-e@5 Acquired: 7/6/2012 19:02:49 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.75488	.88709	-.50952	1.6694	.56311	2.0650	2257.5
Stddev	.86979	.33247	.00990	.1628	2.1623	.0529	6.3
%RSD	115.22	37.478	1.9425	9.7548	383.98	2.5642	.28037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1596.5
Stddev	2.8
%RSD	.17766

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8831.4	6829.6	72828.	10104.
Stddev	11.8	9.6	119.	34.
%RSD	.13306	.14017	.16393	.33507

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.833%	93.909%	94.002%	98.634%
Range				

Sample Name: SD240-12801-e-1-e@25 Acquired: 7/6/2012 19:06:41 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.10545	-38.907	4.9128	9.6524	66.288	-.08139	76044.	.2395
Stddev	.32897	19.951	1.0449	.3033	.309	.00711	52.	.1711
%RSD	311.96	51.280	21.268	3.1417	.46648	8.7366	.06900	71.45

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06091	-.07425	1.7118	.33374	1079.2	.25976	3486.3	91.721
Stddev	.39908	.20737	.5475	1.9324	.6	1.3727	24.4	.188
%RSD	655.23	279.30	31.984	579.01	.05831	528.45	.69875	.20458

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26053	561.68	.33253	1.8708	-1.269	-.61332	.08266	-.12673
Stddev	.24198	10.50	.11096	.2387	1.297	1.3534	.25287	.26646
%RSD	92.882	1.8693	33.369	12.757	102.2	220.66	305.92	210.27

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD240-12801-e-1-e@25 Acquired: 7/6/2012 19:06:41 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.1674	1.0188	.74528	436.99	315.50
Stddev	.2260	1.4583	.07874	2.65	2.88
%RSD	19.360	143.13	10.566	.60707	.91345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9423.0	7091.7	76683.	10279.
Stddev	21.5	17.1	105.	25.
%RSD	.22771	.24140	.13716	.24065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.918%	97.513%	98.977%	100.35%
Range				

Sample Name: 240-12801-e-1-f ms@5 Acquired: 7/6/2012 19:10:28 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	205.14	386.22	1023.9	259.68	10633.	9.6080	377030.
Stddev	.92	18.25	3.9	.54	68.	.0350	1610.
%RSD	.45085	4.7245	.37941	.20642	.64223	.36453	.42688

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	200.9	95.943	959.65	53.788	209.52	4758.1	-4.5002
Stddev	.7	.575	.90	.274	3.02	17.8	.5097
%RSD	.3535	.59919	.09387	.50873	1.4419	.37421	11.327

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17167.	567.30	200.08	1281.3	97.795	965.04	100.3
Stddev	85.	.74	.76	15.9	.255	2.77	1.3
%RSD	.49626	.13043	.37844	1.2401	.26097	.28677	1.247

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12801-e-1-f ms@5 Acquired: 7/6/2012 19:10:28 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.40	405.28	-.75572	390.32	98.498	98.708	2273.1
Stddev	3.37	1.24	.06424	2.35	2.271	.506	19.0
%RSD	1.6641	.30590	8.5005	.60264	2.3060	.51249	.83759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1603.3
Stddev	4.5
%RSD	.28011

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8760.9	6794.9	72966.	10086.
Stddev	20.7	16.3	160.	25.
%RSD	.23658	.23991	.21892	.25267

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.108%	93.433%	94.179%	98.466%
Range				

Sample Name: 240-12801-e-1-gmsd@5 Acquired: 7/6/2012 19:14:23 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	206.69	393.50	1031.8	257.74	10744.	9.6731	367050.
Stddev	.64	11.04	1.4	1.16	16.	.0408	9756.
%RSD	.31125	2.8047	.13689	.44843	.15325	.42235	2.6580

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.1	96.320	968.61	53.791	209.23	4737.6	-4.1755
Stddev	.4	.315	1.60	.610	1.50	29.5	1.7815
%RSD	.2043	.32752	.16478	1.1335	.71640	.62165	42.665

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16990.	566.80	201.07	1269.5	98.383	973.10	102.2
Stddev	64.	1.04	.40	6.6	.715	.34	2.3
%RSD	.37894	.18421	.19949	.52233	.72711	.03483	2.239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12801-e-1-gmsd@5 Acquired: 7/6/2012 19:14:23 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elém	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Réf	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	203.51	406.54	-46488	392.02	95.876	100.10	1523.8
Stddev	.66	.69	.21881	1.26	.121	.12	89.1
%RSD	.32323	.17087	47.069	.32016	.12614	.11593	5.8490

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1588.0
Stddev	5.6
%RSD	.35481

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8702.6	6740.2	72158.	10091.
Stddev	2.9	5.6	196.	10.
%RSD	.03368	.08373	.27215	.09939

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.509%	92.680%	93.137%	98.507%
Range				

Sample Name: 240-12801-e-1-e@10 Acquired: 7/6/2012 19:18:18 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment: *not needed*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13267	-31.063	12.538	23.120	166.67	-.18074	186430.
Stddev	.13531	31.375	2.179	.740	.33	.06472	1626.
%RSD	101.99	101.00	17.376	3.2019	.19795	35.806	.87198

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5878	.21904	.38104	2.7530	1.7962	2390.0	-3.5396
Stddev	.2029	.11837	.09938	.4782	.8222	15.5	1.0447
%RSD	34.51	54.038	26.082	17.369	45.776	.64856	29.516

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8462.5	225.36	.78636	743.20	1.7177	6.0781	-2.317
Stddev	56.7	4.92	.48928	9.05	.7568	.4495	1.181
%RSD	.67011	2.1826	62.220	1.2179	44.058	7.3961	50.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12801-e-1-e@10 Acquired: 7/6/2012 19:18:18 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3613	1.5811	-1.17338	1.9659	-1.1730	1.3341	1104.6
Stddev	1.8600	.8717	.09083	1.0817	.6705	.2926	5.7
%RSD	136.64	55.130	52.387	55.023	57.160	21.932	.52032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	783.12
Stddev	2.22
%RSD	.28323

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9173.1	6998.1	74520.	10099.
Stddev	40.5	30.0	1234.	34.
%RSD	.44186	.42915	1.6563	.33302

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.348%	96.227%	96.186%	98.585%
Range				

Sample Name: SD240-12801-e-1-e@50 Acquired: 7/6/2012 19:22:12 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

not needed

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00373	-45.850	2.6925	2.2626	32.754	-.06309	37295.	-.0113
Stddev	.09532	26.377	1.3343	.2656	.220	.02825	187.	.0669
%RSD	2558.7	57.530	49.556	11.737	.67086	44.777	.50245	592.7

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02800	-.10280	1.0994	-.05910	584.82	-3.0772	1710.7	45.213
Stddev	.26671	.07225	.3119	1.5594	20.48	.8723	8.9	.623
%RSD	952.52	70.282	28.374	2638.7	3.5013	28.347	.51905	1.3776

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00520	361.78	-.09411	1.8385	.2203	.13556	-.20216	-.24557
Stddev	.12418	10.54	.18222	.1240	.9332	1.1618	.26378	.19824
%RSD	2390.0	2.9142	193.62	6.7472	423.6	856.98	130.48	80.725

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: SD240-12801-e-1-e@50 Acquired: 7/6/2012 19:22:12 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Röger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.5972	-1.1059	.17363	218.20	151.94
Stddev	.4460	2.1233	.03503	4.03	7.64
%RSD	27.926	192.00	20.177	1.8473	5.0260

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9616.6	7199.0	77331.	10327.
Stddev	106.3	87.6	745.	19.
%RSD	1.1057	1.2175	.96355	.18530

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.909%	98.989%	99.814%	100.81%
Range				

Sample Name: 240-12801-e-1-fms@10 Acquired: 7/6/2012 19:25:59 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *not needed*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102.70	178.10	511.81	126.91	5265.7	4.7974	189450.
Stddev	.45	16.09	9.45	1.89	88.6	.0386	3188.
%RSD	.43646	9.0323	1.8464	1.4904	1.6821	.80351	1.6826

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	100.2	48.117	487.12	28.101	105.27	2469.3	-1.7280
Stddev	1.6	.927	.51	.766	1.79	22.3	1.5455
%RSD	1.583	1.9264	.10465	2.7266	1.6989	.90255	89.440

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8782.9	288.43	100.86	707.46	49.047	493.83	50.68
Stddev	8.0	.24	1.81	6.72	.890	7.25	1.83
%RSD	.09090	.08181	1.7950	.94974	1.8145	1.4682	3.613

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12801-e-1-fms@10 Acquired: 7/6/2012 19:25:59 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref.	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101.23	203.55	-.30272	198.59	48.319	50.103	1138.2
Stddev	2.83	3.81	.27210	4.32	3.034	.939	.7
%RSD	2.7953	1.8728	89.885	2.1761	6.2791	1.8748	.06166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	809.87
Stddev	4.79
%RSD	.59170

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9030.3	6903.6	73888.	10086.
Stddev	167.6	125.3	56.	46.
%RSD	1.8565	1.8151	.07582	.45436

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.879%	94.927%	95.370%	98.459%
Range				

Sample Name: 24012801-e-1-gmsd@10 Acquired: 7/6/2012 19:29:56 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment: *not needed*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101.16	175.98	497.35	122.34	5217.8	4.7530	188250.
Stddev	.81	25.37	1.65	.15	27.2	.0102	760.
%RSD	.80139	14.418	.33162	.12273	.52219	.21393	.40350

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.90	46.715	478.48	28.471	104.87	2351.7	-3.8958
Stddev	.36	.243	1.73	1.060	.85	28.9	.2823
%RSD	.3655	.52089	.36077	3.7228	.80859	1.2310	7.2476

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8547.2	279.21	98.045	686.76	47.664	482.28	50.27
Stddev	22.4	.68	.087	18.74	.247	1.43	2.97
%RSD	.26178	.24403	.08895	2.7286	.51894	.29726	5.900

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 24012801-e-1-gmsd@10 Acquired: 7/6/2012 19:29:56 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99.904	197.70	-.39439	192.79	47.749	49.771	834.34
Stddev	1.456	1.09	.20100	.76	3.312	.056	20.35
%RSD	1.4572	.55123	50.965	.39206	6.9352	.11316	2.4386

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	781.09
Stddev	2.19
%RSD	.28008

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9137.5	6984.0	74262.	10135.
Stddev	5.7	7.3	316.	23.
%RSD	.06266	.10471	.42501	.22687

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.982%	96.032%	95.853%	98.938%
Range				

Sample Name: mb 240-49570/1-a Acquired: 7/6/2012 19:33:52 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment: *not needed*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26147	-34.657	-.67633	-1.3763	2.5504	-.05414	679.25	-.0523
Stddev	.29511	19.603	.89007	.0718	.4128	.00005	4.61	.1394
%RSD	112.87	56.562	131.60	5.2179	16.185	.09195	.67863	266.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00218	-.48490	2.4894	13.048	153.34	-3.0489	113.53	.65452
Stddev	.05961	.16491	.3959	1.089	16.99	.9329	9.73	.04184
%RSD	2731.9	34.008	15.902	8.3458	11.080	30.596	8.5696	6.3928

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03733	268.23	-.58354	.73571	-.2872	.46809	-.22069	-.26199
Stddev	.14487	6.40	.23513	.72901	1.266	1.4117	.27460	.01473
%RSD	388.08	2.3849	40.294	99.089	440.7	301.59	124.43	5.6205

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-49570/1-a Acquired: 7/6/2012 19:33:52 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.5063	-.35987	10.334	9.1661	-5.4013
Stddev	.7063	1.5791	.220	4.7882	1.5477
%RSD	46.887	438.80	2.1314	52.238	28.654

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9867.1	7403.9	78920.	10431.
Stddev	118.3	89.5	169.	78.
%RSD	1.1990	1.2083	.21370	.74994

Sample Name: lcs 240-49570/2-a Acquired: 7/6/2012 19:37:40 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

not needed

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.528	1960.7	1977.2	1023.6	2068.7	49.359	51128.	49.66	474.95
Stddev	.876	19.9	32.0	17.7	5.9	.195	151.	.70	7.49
%RSD	1.6993	1.0140	1.6162	1.7282	.28531	.39512	.29492	1.400	1.5774

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	192.48	246.70	1020.9	51086.	1011.7	50443.	495.54	966.51	50898.
Stddev	1.41	1.36	6.0	185.	3.4	172.	3.05	14.80	188.
%RSD	.73035	.55132	.58361	.36126	.34050	.34040	.61646	1.5310	.37006

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	473.73	474.94	518.6	2028.3	1952.1	1038.3	1923.2	486.02	489.61
Stddev	7.85	9.28	7.6	34.5	32.7	7.8	31.8	3.36	8.11
%RSD	1.6565	1.9545	1.462	1.7033	1.6776	.75352	1.6524	.69178	1.6568

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: lcs 240-49570/2-a Acquired: 7/6/2012 19:37:40 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	1026.8	970.41
Stddev	10.6	3.77
%RSD	1.0324	.38846

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9096.1	7089.2	75381.	10329.
Stddev	107.3	83.1	305.	52.
%RSD	1.1802	1.1725	.40401	.50558

Sample Name: CCV Acquired: 7/6/2012 19:41:19 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	983.03	25308.	505.42	5093.3	1977.4	2017.4	50371.	499.9	1971.6
Stddev	40.20	52.	.62	9.0	2.4	30.9	81.	1.0	1.5
%RSD	4.0893	.20535	.12317	.17669	.12138	1.5304	.16090	.1902	.07413

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1904.2	1925.1	25941.	50839.	5083.2	50401.	1921.4	1978.2	50853.
Stddev	71.0	79.4	105.	103.	8.6	230.	27.9	3.6	89.
%RSD	3.7301	4.1264	.40506	.20295	.16977	.45567	1.4510	.18323	.17404

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1966.1	485.22	500.3	503.33	5006.7	5133.8	999.45	1959.6	1996.2
Stddev	2.2	.91	5.3	1.67	4.4	137.6	.52	4.3	.1
%RSD	.11291	.18737	1.065	.33080	.08835	2.6795	.05195	.22001	.00445

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 19:41:19 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4932.2	4899.1
Stddev	7.6	5.6
%RSD	.15473	.11409

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8590.5	6861.2	73947.	10077.
Stddev	44.2	41.8	2244.	51.
%RSD	.51464	.60963	3.0347	.50928

Sample Name: CCB Acquired: 7/6/2012 19:45:17 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17269	-6.1141	.36000	12.490	2.9807	F 2.0632	79.231
Stddev	.46622	36.200	1.2452	1.827	2.8575	2.6640	78.425
%RSD	269.97	592.07	345.89	14.628	95.865	129.12	98.983

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.0000	

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0104	-.00227	-.20599	1.7992	26.788	248.35	6.1266
Stddev	.1197	.05798	.25919	.3506	34.847	117.61	5.7714
%RSD	1156.	2555.1	125.82	19.486	130.08	47.355	94.203

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69.371	.07535	.07249	279.24	F 10.624	.30023	1.155
Stddev	67.976	.01751	.25339	74.15	18.811	.87897	2.071
%RSD	97.989	23.233	349.57	26.554	177.05	292.76	179.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					10.000		
Low Limit					-10.000		

Sample Name: CCB Acquired: 7/6/2012 19:45:17 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 ;
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62246	.53012	.29118	.90498	2.4767	3.5090	8.3308
Stddev	.98195	.34606	.29252	.64978	1.3276	6.4083	8.7850
%RSD	157.75	65.280	100.46	71.800	53.604	182.63	105.45

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1.3523
Stddev	8.4686
%RSD	626.21

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9332.6	7005.0	77754.	10220.
Stddev	226.3	172.4	1359.	85.
%RSD	2.4248	2.4611	1.7483	.83133

Sample Name: 240-12731-a-30-a Acquired: 7/6/2012 19:49:06 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

*use for 12731 only
 parent, SD, ms, msd*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-20783	-17.295	3.7680	30.102	408.56	-13730	167040.
Stddev	.36134	9.683	.3622	1.422	2.07	.02421	1852.
%RSD	173.86	55.986	9.6123	4.7226	.50610	17.630	1.1087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3117	-.22106	.35718	1.9890	3585.0	2520.5	7.9033
Stddev	.1103	.23872	.02506	.1592	17.9	20.4	1.7668
%RSD	35.40	107.99	7.0167	8.0032	.49796	.81111	22.355

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52574.	54.119	5.9401	135680.	15.622	1.0042	.7085
Stddev	341.	.130	.0400	1896.	22.796	.4033	1.886
%RSD	.64897	.24060	.67369	1.3974	145.93	40.164	266.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12731-a-30-a Acquired: 7/6/2012 19:49:06 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25821	.32869	-.37259	1.8241	-.89107	5.7285	10849.
Stddev	.35640	.20507	.15689	.1469	1.9136	8.4354	52.
%RSD	138.03	62.389	42.109	8.0551	214.75	147.25	.47556

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	315.60
Stddev	1.67
%RSD	.53030

Check ?	High Limit	Low Limit
Chk Pass		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8643.3	6798.1	72594.	10064.
Stddev	19.3	10.5	83.	21.
%RSD	.22367	.15500	.11464	.20498

Check ?	Value	Range
Chk Pass	88.898%	93.477%
Chk Pass	93.699%	98.247%

Sample Name: SD240-12731-a-30-a@5 Acquired: 7/6/2012 19:53:07 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19187	-24.240	.68207	5.1668	81.478	-.03433	34542.	.1807
Stddev	.90049	6.348	1.3427	.5393	.260	.04919	71.	.0136
%RSD	469.32	26.188	196.85	10.437	.31929	143.29	.20631	7.553

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00141	.11095	2.9090	732.33	676.16	.14943	10878.	11.506
Stddev	.16650	.85223	.3276	5.47	6.54	.51888	76.	.768
%RSD	11818.	768.13	11.260	.74638	.96726	347.23	.69927	6.6778

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1876	27868.	4.2092	.40904	1.591	.63562	.33381	1.6117
Stddev	.1567	114.	3.6204	.75765	1.217	1.2356	.18457	2.4671
%RSD	13.196	.40989	86.010	185.23	76.54	194.39	55.292	153.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD240-12731-a-30-a@5 Acquired: 7/6/2012 19:53:07 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.53644	.11406	4.2646	2170.1	66.057
Stddev	.43210	1.4065	1.2088	16.3	5.835
%RSD	80.550	1233.1	28.345	.75092	8.8325

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9119.1	6910.7	74099.	9737.2
Stddev	25.9	23.6	1591.	59.1
%RSD	.28390	.34188	2.1471	.60646

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.792%	95.024%	95.642%	95.057%
Range				

Sample Name: 240-12731-a-30-b ms Acquired: 7/6/2012 19:56:52 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.869	2047.9	2098.4	1118.1	2568.1	51.855	219870.
Stddev	.655	8.8	4.8	.9	6.9	.075	543.
%RSD	1.2157	.42940	.22701	.07670	.26699	.14502	.24676

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.17	501.63	200.31	256.61	4692.5	56942.	1079.8
Stddev	.05	1.03	.35	1.14	10.7	126.	2.2
%RSD	.1003	.20519	.17692	.44492	.22710	.22098	.20527

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106990.	568.11	1020.0	190520.	503.46	489.57	540.8
Stddev	240.	1.37	1.5	663.	3.08	2.08	.8
%RSD	.22437	.24150	.14322	.34811	.61089	.42499	.1544

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12731-a-30-b.ms Acquired: 7/6/2012 19:56:52 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2124.7	2106.4	1086.4	2014.1	507.06	512.83	12173.
Stddev	2.7	2.6	1.5	2.7	1.66	1.01	37.
%RSD	.12840	.12537	.14254	.13578	.32702	.19642	.30407

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1330.2
Stddev	10.4
%RSD	.78178

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8023.0	6437.8	68166.	9395.5
Stddev	19.3	18.4	351.	18.7
%RSD	.24023	.28569	.51456	.19950

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.519%	88.523%	87.984%	91.720%
Range				

Sample Name: 240-12731-a-30-c msd Acquired: 7/6/2012 20:00:47 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.936	1970.2	2027.5	1086.0	2471.7	49.694	214780.
Stddev	.163	18.5	19.4	9.4	47.6	1.056	2794.
%RSD	.30740	.93784	.95515	.86353	1.9267	2.1246	1.3009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.59	482.38	194.21	247.63	4515.1	55436.	1043.9
Stddev	.31	4.83	.65	1.70	89.7	1032.	20.1
%RSD	.6166	1.0005	.33577	.68713	1.9871	1.8617	1.9245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103110.	553.16	982.33	185650.	490.19	474.80	522.0
Stddev	1828.	.45	9.14	2430.	3.93	5.32	3.4
%RSD	1.7731	.08163	.93056	1.3091	.80201	1.1209	.6591

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12731-a-30-c msd Acquired: 7/6/2012 20:00:47 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2058.1	2029.4	1053.1	1966.8	489.49	496.75	11889.
Stddev	18.8	19.1	1.7	17.7	8.24	4.57	199.
%RSD	.91435	.94220	.16362	.89994	1.6829	.92075	1.6732

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1288.3
Stddev	20.3
%RSD	1.5770

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8001.7	6418.8	67066.	9202.4
Stddev	66.6	52.4	76.	92.5
%RSD	.83171	.81578	.11391	1.0051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.300%	88.261%	86.564%	89.835%
Range				

Sample Name: 240-12664-c-1-b Acquired: 7/6/2012 20:04:42 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.17827	6.4657	3.0404	880.28	99.190	-0.09659	77262.
Stddev	.42019	12.582	.5585	33.53	.314	.02510	61.
%RSD	235.70	194.60	18.369	3.8096	.31632	25.988	.07832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1238	7.2930	2.8704	4.0327	2101.7	70781.	15.381
Stddev	.0080	.2166	.2664	.6846	5.4	35.	1.853
%RSD	6.487	2.9705	9.2810	16.977	.25654	.04969	12.048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20473.	880.72	1.0256	140090.	28.880	1.0616	-.4708
Stddev	107.	1.70	.1534	3059.	1.108	.4679	.9467
%RSD	.52276	.19358	14.958	2.1837	3.8355	44.072	201.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12664-c-1-b Acquired: 7/6/2012 20:04:42 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.88578	1.0615	.49457	3.1804	1.7434	7.4565	6410.9
Stddev	.86950	.4311	.10347	.1956	1.5891	.4082	16.2
%RSD	98.162	40.610	20.922	6.1500	91.147	5.4747	.25244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	329.56
Stddev	2.53
%RSD	.76683

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9107.0	7137.6	74659.	10075.
Stddev	189.5	146.2	23.	204.
%RSD	2.0804	2.0476	.03077	2.0219

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.668%	98.145%	96.365%	98.350%
Range				

Sample Name: 240-12736-a-1-a Acquired: 7/6/2012 20:08:35 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45654	-40.574	2.8074	345.22	74.883	-.15132	142520.
Stddev	.43203	19.743	1.0652	7.86	.480	.02333	1714.
%RSD	94.631	48.659	37.940	2.2779	.64125	15.421	1.2025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3112	.71256	.60347	3.8530	20.084	12483.	8.3823
Stddev	.1434	.04521	.11028	1.2933	1.366	80.	1.4487
%RSD	46.08	6.3441	18.275	33.567	6.8006	.64399	17.283

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48223.	270.40	2.0087	252980.	2.2791	.81408	-.0774
Stddev	303.	.45	.2402	2660.	.1800	.64972	1.106
%RSD	.62800	.16594	11.956	1.0514	7.8972	79.811	1429.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12736-a-1-a Acquired: 7/6/2012 20:08:35 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14684	.16038	-.27485	2.6564	-1.1039	31.213	5590.7
Stddev	.79393	.15257	.23146	.3018	2.1112	.676	40.4
%RSD	540.66	95.133	84.211	11.360	191.25	2.1642	.72210

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	510.49
Stddev	2.07
%RSD	.40503

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8828.7	6913.2	72766.	10115.
Stddev	123.0	98.6	145.	67.
%RSD	1.3933	1.4266	.19905	.66089

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.805%	95.059%	93.922%	98.740%
Range				

Sample Name: 240-12777-b-1-a Acquired: 7/6/2012 20:12:37 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-52862	-13.357	2.7517	878.92	14.274	-.09028	239320.
Stddev	.28193	14.731	1.5851	3.56	.385	.03986	1489.
%RSD	53.333	110.28	57.604	.40552	2.6954	44.154	.62207

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4335	1.8725	1.4626	3.9493	142.79	23106.	70.643
Stddev	.1621	.2632	.4404	.5345	2.00	40.	1.128
%RSD	37.38	14.058	30.110	13.534	1.4030	.17299	1.5972

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	223520.	10.383	.21733	F 627750.	14.966	-1.5516	-2.859
Stddev	504.	.190	.14128	6106.	.478	1.0603	2.186
%RSD	.22554	1.8322	65.004	.97267	3.1926	68.336	76.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				500000.			
Low Limit				-500000.			

Sample Name: 240-12777-b-1-a Acquired: 7/6/2012 20:12:37 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01949	.35691	-.27942	3.1973	-1.0308	1.3657	9849.5
Stddev	1.2606	.54821	.19883	.5259	2.8577	.0593	23.6
%RSD	6466.3	153.60	71.160	16.448	277.24	4.3393	.24007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1243.5
Stddev	9.2
%RSD	.74166

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8115.2	6520.8	69480.	9940.9
Stddev	24.7	14.8	1525.	41.8
%RSD	.30437	.22751	2.1944	.42029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.467%	89.664%	89.680%	97.045%
Range				

Sample Name: 240-12797-c-1-a Acquired: 7/6/2012 20:16:39 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.39518	.56864	5.7521	593.67	182.27	-.12748	188690.
Stddev	.22704	24.604	.3093	3.89	2.39	.01640	1600.
%RSD	57.453	4326.8	5.3777	.65513	1.3109	12.865	.84792

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	<u>Cd2288</u>	Co2286	<u>Cr2677</u>	<u>Cu3273</u>	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4519	3.6901	4.5692	29.913	4368.0	39290.	41.942
Stddev	.0624	.0565	.1914	1.194	69.3	570.	1.130
%RSD	13.81	1.5308	4.1887	3.9922	1.5863	1.4504	2.6936

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	<u>Mo2020</u>	Na5895	<u>Ni2316</u>	<u>Pb2203</u>	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87803.	510.67	12.174	242920.	30.704	6.8494	-.8844
Stddev	1275.	1.19	.137	2182.	.794	.5898	.7983
%RSD	1.4522	.23287	1.1229	.89809	2.5864	8.6102	90.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12797-c-1-a Acquired: 7/6/2012 20:16:39 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	<u>Zn2062</u>	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17233	1.5431	-.16213	3.4331	.24917	105.43	8268.8
Stddev	2.1355	.0617	.13590	.7168	1.1490	.52	137.3
%RSD	1239.2	3.9961	83.823	20.879	461.11	.49680	1.6610

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	9181.4
Stddev	136.2
%RSD	1.4831

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8578.8	6831.5	72563.	10312.
Stddev	17.5	13.0	56.	67.
%RSD	.20437	.18992	.07684	.65343

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.236%	93.936%	93.659%	100.67%
Range				

Sample Name: 240-12813-h-1-a Acquired: 7/6/2012 20:20:40 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14529	66.742	1.4631	78.849	23.587	-.06046	50412.	.2612
Stddev	.30164	24.328	1.2719	.181	.192	.05797	204.	.0405
%RSD	207.62	36.451	86.933	.23011	.81407	95.895	.40524	15.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00246	.61997	3.9867	200.52	3815.0	8.8426	11024.	52.641
Stddev	.06654	.17706	.6301	2.05	56.1	2.6090	43.	1.071
%RSD	2707.9	28.560	15.805	1.0231	1.4713	29.505	.39171	2.0354

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.8230	52550.	2.2277	.56084	-.9729	-.98785	.20410	1.3792
Stddev	.0607	198.	.2727	.77497	1.747	.73614	.19468	.1266
%RSD	.88999	.37590	12.242	138.18	179.6	74.519	95.383	9.1817

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12813-h-1-a Acquired: 7/6/2012 20:20:40 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.1887	1.9266	14.679	4152.3	226.20
Stddev	.2587	1.2353	.090	25.6	5.12
%RSD	11.821	64.116	.61147	.61607	2.2629

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9364.1	7138.6	77041.	10364.
Stddev	18.7	16.2	1250.	45.
%RSD	.20020	.22692	1.6228	.43268

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.312%	98.158%	99.439%	101.18%
Range				

Sample Name: 240-12814-h-1-a Acquired: 7/6/2012 20:24:24 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15489	629.51	1.8458	38.310	89.578	.00691	40201.	.1707
Stddev	.12594	16.65	1.3535	.395	.718	.00159	300.	.1636
%RSD	81.309	2.6448	73.329	1.0302	.80156	22.985	.74512	95.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2577	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.69389	.59090	5.1629	1087.3	6661.8	-1.4619	9276.9	132.85
Stddev	.17509	.16146	1.0935	9.4	37.2	1.0756	71.3	.11
%RSD	25.234	27.325	21.181	.86402	.55773	73.574	.76886	.08139

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.76338	14058.	1.0820	1.7251	.5033	-.67869	.02620	7.3300
Stddev	.17845	108.	.1695	.7086	1.029	.87068	.09520	.0942
%RSD	23.376	.76703	15.663	41.076	204.5	128.29	363.41	1.2850

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12814-h-1-a Acquired: 7/6/2012 20:24:24 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	<u>Sr3464</u>
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.9435	.82397	14.786	2630.6	197.27
Stddev	.3344	1.0604	.078	11.0	2.54
%RSD	17.207	128.70	.52508	.41696	1.2879

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9497.0	7238.4	76720.	10330.
Stddev	50.6	36.9	183.	39.
%RSD	.53302	.50981	.23890	.37911

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.679%	99.530%	99.026%	100.84%
Range				

Sample Name: CCV Acquired: 7/6/2012 20:28:08 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1009.7	25378.	504.79	5120.0	1987.0	2059.8	50510.	499.0	1978.4
Stddev	2.2	63.	2.79	9.8	2.9	4.0	32.	2.0	5.6
%RSD	.21565	.24939	.55265	.19094	.14740	.19383	.06391	.3939	.28556

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1943.5	1976.6	26195.	51157.	5137.6	50819.	1959.8	1980.3	50992.
Stddev	4.4	4.5	77.	62.	10.5	135.	13.7	5.9	47.
%RSD	.22828	.22832	.29562	.12156	.20517	.26661	.69676	.29948	.09166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1971.1	484.68	495.7	506.62	5037.9	5167.4	1005.9	1969.5	2002.4
Stddev	5.8	1.11	.6	4.30	8.8	53.0	1.2	4.5	5.4
%RSD	.29174	.22802	.1204	.84859	.17536	1.0254	.11966	.22952	.27184

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 20:28:08 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4955.9	4930.4
Stddev	6.4	11.1
%RSD	.12940	.22477

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8701.7	6982.5	74012.	10032.
Stddev	31.3	30.4	170.	6.
%RSD	.36017	.43552	.22930	.05748

Sample Name: CCB Acquired: 7/6/2012 20:32:03 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10333	-5.2522	-.14698	11.622	.06515	.15128	5.1951	.0962
Stddev	.54103	11.299	.49589	1.605	.19920	.05321	4.4036	.0439
%RSD	523.62	215.13	337.37	13.809	305.76	35.171	84.763	45.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09895	-.31017	2.8290	3.8023	211.71	1.3151	2.4859	.01968
Stddev	.13636	.16666	.4033	1.7280	27.57	1.2048	6.3886	.05602
%RSD	137.81	53.732	14.257	45.445	13.021	91.610	256.99	284.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04102	331.04	3.8728	.35967	-.3710	1.4514	.39962	.02388
Stddev	.10911	43.58	6.7293	.58090	1.253	1.5896	.15224	.10472
%RSD	266.02	13.165	173.76	161.51	337.8	109.52	38.096	438.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/6/2012 20:32:03 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.49661	1.6075	1.0678	57.516	-6.6151
Stddev	.76677	1.8568	2.3026	2.465	1.2027
%RSD	154.40	115.50	215.65	4.2861	18.182

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9488.6	7144.4	77239.	9839.1
Stddev	22.9	15.3	997.	232.7
%RSD	.24086	.21428	1.2912	2.3647

Sample Name: 240-12816-h-1-a Acquired: 7/6/2012 20:35:51 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-74393	-18.297	.71270	108.56	104.91	.00160	13907.
Stddev	.45325	15.661	1.1581	.71	.64	.03748	87.
%RSD	60.926	85.594	162.50	.65828	.61039	2340.0	.62835

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0804	.03835	-.29130	6.7200	22.301	1137.5	10.274
Stddev	.1109	.08553	.17235	.1271	.554	29.9	1.926
%RSD	137.9	223.01	59.168	1.8915	2.4842	2.6305	18.745

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4106.6	.21858	1.1525	108910.	6.1350	.92680	1.370
Stddev	29.8	.05335	.1269	881.	.6024	.71504	1.269
%RSD	.72489	24.405	11.010	.80872	9.8188	77.151	92.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12816-h-1-a Acquired: 7/6/2012 20:35:51 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22059	.33591	-.09894	1.3614	-.44813	5.2010	3325.4
Stddev	2.0461	.62024	.14353	1.0842	1.2456	.1890	14.1
%RSD	927.59	184.64	145.07	79.636	277.96	3.6345	.42354

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	381.75
Stddev	3.56
%RSD	.93177

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9034.7	6909.0	73010.	9826.4
Stddev	18.9	18.4	535.	64.1
%RSD	.20878	.26650	.73218	.65202

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.924%	95.001%	94.237%	95.927%
Range				

Sample Name: 240-12819-h-1-a Acquired: 7/6/2012 20:39:36 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22967	117.35	1.8615	46.225	72.119	.05690	56935.	.1108
Stddev	.28885	27.37	.6891	.393	1.389	.02323	1297.	.1036
%RSD	125.77	23.323	37.018	.84984	1.9265	40.827	2.2781	93.50

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14438	.21238	5.0584	143.09	3665.8	-.12216	13132.	12.974
Stddev	.04036	.29817	.9900	3.92	123.6	1.4978	294.	.034
%RSD	27.956	140.39	19.572	2.7381	3.3718	1226.1	2.2389	.26234

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.86356	27710.	10.603	1.4740	1.396	-.74164	.04778	1.6895
Stddev	.19611	715.	.809	.8841	1.506	1.5468	.29551	.1029
%RSD	22.709	2.5800	7.6314	59.982	107.8	208.56	618.49	6.0889

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12819-h-1-a Acquired: 7/6/2012 20:39:36 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	<u>Sr3464</u>
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.0321	-.84225	4.3432	3014.6	249.57
Stddev	.5562	2.0520	.1944	70.4	10.60
%RSD	27.369	243.63	4.4766	2.3350	4.2468

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8969.6	6854.1	72552.	9524.2
Stddev	77.3	52.9	181.	247.9
%RSD	.86151	.77171	.24960	2.6032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.254%	94.246%	93.645%	92.977%
Range				

Sample Name: 240-12820-h-1-a Acquired: 7/6/2012 20:43:20 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40431	3804.8	9.3567	34.034	122.73	17314	19555.	.0089	2.1863
Stddev	.19837	28.3	.9637	.753	.40	.06042	37.	.0836	.0660
%RSD	49.063	.74450	10.299	2.2118	.32589	34.899	.18709	933.9	3.0185

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7013	9.1581	6240.2	25799.	1.5158	8350.0	629.17	4.5883	6143.6
Stddev	.1500	.1644	19.4	68.	1.2010	43.3	1.14	.1440	17.2
%RSD	3.1898	1.7950	.31138	.26550	79.233	.51871	.18161	3.1382	.27959

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3239	6.5481	1.843	.31914	3.5249	52.881	1.4309	9.9229	24.465
Stddev	.1247	.5091	1.467	1.5587	.1245	.346	.1234	1.0703	.320
%RSD	3.7506	7.7753	79.60	488.41	3.5307	.65439	8.6221	10.786	1.3097

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12820-h-1-a Acquired: 7/6/2012 20:43:20 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	7274.6	83.475
Stddev	20.2	3.993
%RSD	.27738	4.7832

Check ? Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9566.4	7366.7	78242.	10548.
Stddev	77.5	58.3	349.	63.
%RSD	.81041	.79107	.44576	.60134

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 Value 98.392% 101.29% 100.99% 102.97%
 Range

Sample Name: 240-12821-h-1-a Acquired: 7/6/2012 20:47:04 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12851	31.452	1.4912	35.216	23.617	.04052	21533.	.2922
Stddev	.13635	12.492	.8354	.243	.116	.06957	36.	.0867
%RSD	106.10	39.717	56.019	.68907	.49167	171.71	.16799	29.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20871	.26612	19.186	4099.8	3419.8	-.46085	6431.9	72.682
Stddev	.15965	.23885	.321	15.5	18.9	1.0452	31.5	.073
%RSD	76.494	89.752	1.6728	.37805	.55239	226.80	.48999	.09981

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.33145	5447.1	1.6787	8.6461	.5935	-.43753	.42559	.99382
Stddev	.13776	5.7	.1978	.2517	.2064	1.2959	.08603	.26576
%RSD	41.564	.10503	11.780	2.9115	34.78	296.19	20.215	26.742

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12821-h-1-a Acquired: 7/6/2012 20:47:04 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3764	.24828	882.25	2695.5	68.282
Stddev	.0509	.97473	1.06	8.8	2.163
%RSD	3.7012	392.60	.12017	.32496	3.1672

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9602.3	7303.0	78060.	10359.
Stddev	28.2	33.9	32.	30.
%RSD	.29379	.46372	.04155	.28592

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.763%	100.42%	100.75%	101.13%
Range				

Sample Name: 240-12823-h-1-a Acquired: 7/6/2012 20:50:49 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4584	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-30390	100.52	3.3446	52.469	51.726	-05882	49811.	.1208
Stddev	.20518	9.32	1.3332	.911	.271	.05114	66.	.0723
%RSD	67.516	9.2738	39.862	1.7360	.52322	86.934	.13227	59.85

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10264	.28176	7.6352	185.36	8664.7	-.73724	5416.4	29.830
Stddev	.13346	.12128	.5506	2.58	45.4	1.1245	12.5	.052
%RSD	130.02	43.043	7.2109	1.3894	.52345	152.53	.23160	.17387

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.83810	8377.8	1.0502	2.6368	-.5079	1.7111	.03778	2.0256
Stddev	.11600	50.5	.1472	.7923	1.326	1.0194	.15316	.1265
%RSD	13.841	.60237	14.021	30.048	261.1	59.576	405.41	6.2462

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12823-h-1-a Acquired: 7/6/2012 20:50:49 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.3872	2.3506	33.397	4817.0	204.13
Stddev	.4029	2.2557	.630	8.0	7.87
%RSD	16.880	95.963	1.8852	.16526	3.8529

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9578.4	7262.0	77452.	10287.
Stddev	62.6	59.8	265.	81.
%RSD	.65336	.82385	.34254	.79096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.517%	99.855%	99.970%	100.42%
Range				

Sample Name: 240-12825-h-1-a Acquired: 7/6/2012 20:54:33 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1291	1860.8	1.7321	58.461	87.109	.09699	55429.	.1749
Stddev	.00109	12.2	.6898	1.463	.177	.03116	41.	.0952
%RSD	.96248	.65405	39.824	2.5026	.20329	32.121	.07311	54.44

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4425	1.8129	7.5592	1967.9	5247.9	2.0883	17005.	139.44
Stddev	.0790	.1930	.4733	6.0	28.0	2.6028	27.	.22
%RSD	5.4805	10.646	6.2619	.30665	.53329	124.64	.15725	.15874

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25188	14508.	4.3125	2.6030	.1169	.59763	.45096	30.580
Stddev	.01258	22.	.3880	.8835	.6741	1.3547	.37642	.387
%RSD	4.9938	.15401	8.9970	33.941	576.5	226.68	83.471	1.2654

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12825-h-1-a Acquired: 7/6/2012 20:54:33 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	<u>Sr3464</u>
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.6417	3.0874	67.276	7240.4	436.24
Stddev	.3652	.9386	1.233	11.4	3.87
%RSD	22.243	30.400	1.8326	.15720	.88798

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9383.5	7294.1	77948.	10553.
Stddev	149.8	119.8	519.	24.
%RSD	1.5959	1.6430	.66604	.22644

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.512%	100.30%	100.61%	103.02%
Range				

Sample Name: 240-12826-h-1-a Acquired: 7/6/2012 20:58:17 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14870	746.01	.56414	6.0989	91.958	.01996	37660.	.0798
Stddev	.32634	6.85	.26930	.0758	.259	.00640	99.	.0181
%RSD	219.46	.91771	47.737	1.2429	.28198	32.061	.26243	22.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20379	.66350	4.5282	1188.5	1920.7	-.02306	9906.7	33.986
Stddev	.19093	.26830	.5193	6.2	31.3	.40788	42.2	.035
%RSD	93.690	40.437	11.467	.52098	1.6301	1768.6	.42561	.10211

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09182	5441.6	1.3986	1.4645	-.4603	.06511	.34630	11.582
Stddev	.05199	12.2	.1753	.5370	1.361	.52888	.10725	.247
%RSD	56.626	.22438	12.532	36.670	295.7	812.28	30.971	2.1295

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12826-h-1-a Acquired: 7/6/2012 20:58:17 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4521	.28511	14.735	7864.6	146.34
Stddev	.5006	2.6595	.143	13.0	1.03
%RSD	34.473	932.79	.97228	.16502	.70118

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9523.0	7296.7	77047.	10345.
Stddev	27.8	19.4	190.	73.
%RSD	.29220	.26638	.24650	.70434

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.947%	100.33%	99.447%	100.99%
Range				

Sample Name: 240-12827-h-1-a Acquired: 7/6/2012 21:02:02 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-43674	41306.	14.403	43.335	385.96	2.7338	98561.	.9913
Stddev	.32232	502.	.046	.682	5.47	.0202	464.	.0762
%RSD	73.801	1.2158	.31728	1.5736	1.4180	.74041	.47026	7.685

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.823	46.523	39.934	40726.	11201.	91.187	23929.	1277.3
Stddev	.274	.016	.669	499.	135.	1.832	309.	1.5
%RSD	1.1987	.03367	1.6751	1.2252	1.2052	2.0092	1.2895	.11815

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6329	6265.0	64.326	28.390	-.7002	1.5123	3.1699	426.46
Stddev	.1352	66.8	.855	.891	1.084	1.4678	.4162	.37
%RSD	8.2817	1.0664	1.3292	3.1378	154.8	97.060	13.130	.08734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12827-h-1-a Acquired: 7/6/2012 21:02:02 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.1120	59.087	156.53	53855.	559.66
Stddev	.2670	4.109	1.04	701.	4.56
%RSD	12.641	6.9549	.66583	1.3021	.81423

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg.	9309.1	7714.8	79611.	10868.
Stddev	31.5	25.5	559.	102.
%RSD	.33837	.33079	.70162	.93533

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.746%	106.08%	102.76%	106.10%
Range				

Sample Name: 240-12731-a-29-a Acquired: 7/6/2012 21:05:55 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-64786	-25.403	2.1012	8.9750	403.89	-18031	229940.
Stddev	.34989	1.015	1.0166	.3464	2.72	.03848	1318.
%RSD	54.006	3.9945	48.381	3.8598	.67355	21.343	.57317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2940	-.08708	.24071	3.3420	3972.9	3142.4	5.7234
Stddev	.1324	.12604	.00663	1.1468	38.2	18.7	1.5758
%RSD	45.03	144.74	2.7545	34.314	.96066	.59568	27.533

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	<u>Na5895</u>	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69886.	76.875	4.8339	189550.	.63875	.11098	-2.410
Stddev	542.	.142	.1423	3008.	.45178	.92125	1.285
%RSD	.77588	.18465	2.9439	1.5871	70.729	830.07	53.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12731-a-29-a Acquired: 7/6/2012 21:05:55 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4738	.74055	-.32038	2.7974	-.41760	.25069	9234.0
Stddev	.7357	.28154	.20967	.4310	3.8505	.05514	89.7
%RSD	29.737	38.018	65.446	15.409	922.04	21.996	.97165

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	344.33
Stddev	7.93
%RSD	2.3022

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8613.9	6851.5	72497.	10204.
Stddev	26.5	27.3	95.	83.
%RSD	.30768	.39894	.13159	.81309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.596%	94.211%	93.575%	99.609%
Range				

Sample Name: 240-12748-b-1-f@10 Acquired: 7/6/2012 21:09:58 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

USE for 12748 only parent SD ms/msd

Ncm already done

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-18063	-34.060	3265.9	26.361	46.468	-.02807	4650.2
Stddev	.31215	23.426	3.5	.270	.116	.03718	17.0
%RSD	172.81	68.777	.10834	1.0253	.24961	132.42	.36527

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6168	.01174	.99295	3.1547	102850.	748.44	11.607
Stddev	.0369	.16422	.26741	.8917	436.	26.29	2.109
%RSD	5.985	1399.2	26.931	28.265	.42343	3.5127	18.173

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	411.13	1988.1	1.1906	154040.	.49005	.50623	1.949
Stddev	12.31	15.1	.1287	1181.	.11586	.80363	2.603
%RSD	2.9943	.75905	10.809	.76651	23.644	158.75	133.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12748-b-1-f@10 Acquired: 7/6/2012 21:09:58 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4138	.41764	-.03957	3.6600	-2.6031	16.039	144.57
Stddev	.6523	.43939	.07021	.6398	1.7611	.072	6.52
%RSD	46.138	105.21	177.42	17.482	67.655	.45039	4.5091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	38.859
Stddev	4.160
%RSD	10.706

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8992.8	7045.7	74192.	10095.
Stddev	29.2	16.0	100.	65.
%RSD	.32431	.22705	.13470	.63927

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.493%	96.882%	95.762%	98.546%
Range				

Sample Name: CCV Acquired: 7/6/2012 21:14:01 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1005.3	25191.	503.54	5097.2	1971.9	2052.1	50131.	496.1	1970.1
Stddev	.7	47.	.94	3.7	7.4	6.2	134.	.6	.8
%RSD	.06911	.18695	.18737	.07293	.37516	.30205	.26654	.1157	.04220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1935.1	1964.5	26096.	50867.	5120.1	50704.	1972.8	1971.4	51070.
Stddev	4.6	4.8	60.	246.	17.9	35.	11.7	1.3	69.
%RSD	.23605	.24660	.23019	.48390	.34907	.06995	.59230	.06488	.13470

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1962.1	482.51	495.5	503.62	5025.0	5181.6	1001.7	1952.1	1993.2
Stddev	1.6	1.78	1.4	2.36	10.3	13.4	.7	4.2	2.1
%RSD	.07966	.36806	.2899	.46798	.20463	.25952	.07310	.21312	.10636

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 21:14:01 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4901.4	4894.5
Stddev	27.2	8.9
%RSD	.55438	.18116

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8772.6	7049.9	74463.	10102.
Stddev	10.9	15.9	317.	21.
%RSD	.12377	.22588	.42580	.20940

Sample Name: CCB Acquired: 7/6/2012 21:17:56 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28720	-22.833	1.1989	9.8429	.33307	.43751	3.8732	-.0090
Stddev	.27926	17.040	.2036	1.4017	.56736	.50998	12.797	.0519
%RSD	97.236	74.627	16.982	14.241	170.34	116.56	330.39	574.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12598	-.27727	3.0537	7.7472	210.10	1.6552	17.822	.06550
Stddev	.22313	.24601	.7003	6.7053	27.40	2.2651	8.258	.09027
%RSD	177.12	88.725	22.933	86.551	13.040	136.84	46.335	137.82

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10312	181.31	-.12715	.28493	-.0326	.32610	.25424	.18834
Stddev	.25799	9.97	.30387	.87344	1.135	.33794	.37691	.34397
%RSD	250.17	5.4981	238.99	306.54	3481.	103.63	148.25	182.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/6/2012 21:17:56 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4377	1.8233	-.33914	2.3580	-3.3539
Stddev	.3533	.7987	.01489	5.6069	4.1881
%RSD	24.572	43.806	4.3911	237.79	124.87

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9713.9	7340.1	78152.	10204.
Stddev	51.8	34.8	279.	77.
%RSD	.53301	.47349	.35760	.75763

Sample Name: SD240-12748-b-1-f@50 Acquired: 7/6/2012 21:21:45 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-27855	-38.312	640.38	6.8517	9.0040	-02344	897.99	-.2241
Stddev	.05206	9.229	2.68	.3040	.0982	.02365	1.87	.0899
%RSD	18.690	24.088	.41866	4.4376	1.0904	100.88	.20791	40.14

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06886	-.11197	4.3184	20728.	287.26	3.1934	83.551	401.77
Stddev	.22262	.34324	.3961	21.	15.50	.3750	8.627	.66
%RSD	323.28	306.53	9.1734	.10350	5.3940	11.744	10.326	.16345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22991	31428.	-.47410	.13166	1.290	.54488	.27811	-.41043
Stddev	.10045	31.	.32047	1.1098	2.116	2.0056	.27047	.13260
%RSD	43.693	.09936	67.596	842.94	164.1	368.08	97.252	32.308

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD240-12748-b-1-f@50 Acquired: 7/6/2012 21:21:45 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2839	-.87461	3.8733	28.635	1.8955
Stddev	.7418	.20524	.1239	1.536	7.6145
%RSD	57.780	23.466	3.1994	5.3628	401.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9576.0	7267.3	76938.	10160.
Stddev	7.0	10.6	124.	24.
%RSD	.07281	.14600	.16113	.23621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.492%	99.928%	99.306%	99.187%
Range				

Sample Name: 240-12748-b-1-gms@10 Acquired: 7/6/2012 21:25:29 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99.855	159.91	3765.8	130.80	5188.9	5.0651	4653.6
Stddev	2.248	16.63	13.2	.54	39.1	.0350	28.7
%RSD	2.2513	10.398	.34995	.41561	.75376	.69174	.61743

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.75	49.064	477.91	28.116	103880.	708.02	12.713
Stddev	.29	.119	12.59	.965	811.	39.14	1.191
%RSD	.3002	.24282	2.6351	3.4320	.78073	5.5278	9.3710

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	413.82	2038.5	99.073	154530.	48.551	482.84	50.24
Stddev	7.45	33.6	.177	755.	.446	1.27	1.47
%RSD	1.8003	1.6505	.17911	.48848	.91850	.26293	2.924

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12748-b-1-gms@10 Acquired: 7/6/2012 21:25:29 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	82.362	206.07	.05651	196.96	48.827	66.602	133.33
Stddev	.705	.49	.22472	.40	1.859	.185	4.98
%RSD	.85623	.23572	397.67	.20444	3.8070	.27757	3.7346

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	37.427
Stddev	5.937
%RSD	15.863

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9064.1	7119.2	75419.	10147.
Stddev	12.8	18.1	1081.	51.
%RSD	.14126	.25374	1.4338	.49881

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.227%	97.892%	97.346%	99.056%
Range				

Sample Name: 24012748-b-1-hmsd@10 Acquired: 7/6/2012 21:29:34 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101.20	162.49	3775.8	129.60	5126.3	5.0674	4639.8
Stddev	.80	18.26	6.7	.80	56.3	.1549	39.8
%RSD	.78584	11.238	.17829	.61560	1.0973	3.0572	.85804

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.13	48.609	481.13	28.850	103430.	701.09	13.985
Stddev	.16	.417	.81	.182	555.	13.71	1.909
%RSD	.1687	.85855	.16803	.63071	.53644	1.9556	13.648

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	417.45	2069.2	98.707	153780.	48.287	479.45	51.22
Stddev	22.78	10.1	.037	5378.	.252	.94	.35
%RSD	5.4557	.48583	.03728	3.4973	.52200	.19542	.6843

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 24012748-b-1-hmsd@10 Acquired: 7/6/2012 21:29:34 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	75.469	204.07	.23207	195.57	47.929	66.392	136.40
Stddev	1.600	.21	.57668	.61	1.460	.106	4.47
%RSD	2.1206	.10318	248.50	.30990	3.0469	.15937	3.2759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	41.042
Stddev	1.748
%RSD	4.2590

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9032.3	7091.5	74327.	10130.
Stddev	7.8	5.5	309.	65.
%RSD	.08586	.07811	.41545	.64473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.899%	97.511%	95.937%	98.891%
Range				

Sample Name: 240-12672-m-1-i@5 Acquired: 7/6/2012 21:33:39 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

NCM matrix

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39458	64.270	1.3620	352.81	399.51	-.02030	118260.
Stddev	.21776	25.345	.2902	.56	.37	.03203	479.
%RSD	55.187	39.435	21.309	.15813	.09347	157.79	.40522

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.564	146.34	.40348	23.461	10.503	2832.1	69.965
Stddev	.094	.28	.24907	2.028	4.529	23.8	1.854
%RSD	5.999	.19296	61.730	8.6421	43.118	.83991	2.6495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18108.	501.84	20.763	305410.	382.47	.24847	8.382
Stddev	93.	18.12	.066	6278.	.52	.35265	2.071
%RSD	.51549	3.6115	.31744	2.0557	.13469	141.93	24.70

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12672-m-1-i@5 Acquired: 7/6/2012 21:33:39 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3095	.52890	-.05032	.81280	-.41822	1498.2	3969.6
Stddev	1.6186	.31230	.20577	.41492	2.5926	1.4	71.9
%RSD	123.60	59.048	408.90	51.049	619.91	.09614	1.8108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	731.99
Stddev	5.74
%RSD	.78426

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8689.4	6882.1	73519.	9970.3
Stddev	34.3	19.7	1605.	17.4
%RSD	.39470	.28656	2.1824	.17460

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.373%	94.631%	94.893%	97.332%
Range				

Sample Name: 240-12672-m-1-i@10 Acquired: 7/6/2012 21:37:41 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

not needed

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12206	-14.100	1.7651	172.42	200.94	-.05514	60898.
Stddev	.33434	2.864	.7833	4.18	1.05	.01737	122.
%RSD	273.91	20.310	44.373	2.4225	.52374	31.507	.19994

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7930	72.222	.22972	14.112	1.6878	1556.8	36.007
Stddev	.0495	2.011	.31191	.918	.5340	40.9	.707
%RSD	6.244	2.7840	135.78	6.5033	31.640	2.6241	1.9648

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9279.9	261.20	10.250	156020.	189.05	.80007	2.977
Stddev	20.9	.47	.272	1591.	4.93	.30058	1.090
%RSD	.22575	.17859	2.6553	1.0200	2.6093	37.569	36.62

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12672-m-1-i@10 Acquired: 7/6/2012 21:37:41 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5300	.36104	.16962	.85528	1.0717	739.15	2054.2
Stddev	1.5566	.48756	.17492	.87065	1.3039	18.65	14.9
%RSD	101.74	135.04	103.12	101.80	121.67	2.5232	.72745

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	364.88
Stddev	1.36
%RSD	.37249

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9066.3	7097.1	74032.	10066.
Stddev	113.6	79.8	301.	18.
%RSD	1.2531	1.1242	.40594	.17521

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.249%	97.588%	95.556%	98.268%
Range				

Sample Name: 240-12672-m-2-e@10 Acquired: 7/6/2012 21:41:34 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16377	4846.4	30.837	304.62	13.116	-.00237	28554.
Stddev	.45416	98.0	1.522	.40	.254	.06981	536.
%RSD	277.31	2.0219	4.9350	.13068	1.9348	2939.6	1.8785

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	228.7	62.657	7.4126	580.26	5.3273	18097.	65.211
Stddev	.3	.142	.2614	1.53	1.3890	333.	1.094
%RSD	.1341	.22603	3.5266	.26323	26.072	1.8400	1.6775

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5774.2	340.52	7.2747	276470.	70.196	86.620	34.14
Stddev	107.9	.53	.2265	4964.	.226	.996	2.11
%RSD	1.8692	.15695	3.1141	1.7956	.32243	1.1502	6.179

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12672-m-2-e@10 Acquired: 7/6/2012 21:41:34 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.738	.94172	-.16120	1.7986	3.1582	F 21503.	3944.3
Stddev	.663	.47330	.07387	.2231	2.6593	383.	78.1
%RSD	2.3085	50.259	45.827	12.402	84.203	1.7789	1.9800

RP

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	102.18
Stddev	6.75
%RSD	6.6067

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8934.0	7069.3	72909.	9845.8
Stddev	14.6	4.9	332.	39.1
%RSD	.16362	.06935	.45567	.39673

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.888%	97.205%	94.107%	96.116%
Range				

Sample Name: 240-12756-a-1-d@5 Acquired: 7/6/2012 21:45:36 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

ncm matrix

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-51674	-9.6342	4.1736	69.205	6.5861	.01426	4698.0	1.419
Stddev	.25774	5.3758	.5284	.642	.1032	.04632	7.0	.124
%RSD	49.878	55.799	12.660	.92814	1.5669	324.76	.14951	8.726

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17124	.73867	13.703	462.30	27911.	139.08	10095.	38.045
Stddev	.14120	.22501	.502	2.05	431.	2.91	42.	.067
%RSD	82.459	30.461	3.6670	.44320	1.5433	2.0914	.41707	.17727

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.43967	^ *****	5.9935	7.6349	1.922	1.0629	1.2251	-.08955
Stddev	.13252	----	.3954	.5569	.505	1.4685	.4491	.21863
%RSD	30.142	----	6.5964	7.2940	26.28	138.16	36.655	244.13

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12756-a-1-d@5 Acquired: 7/6/2012 21:45:36 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.26075	-1.2130	62.916	86.711	7.2895
Stddev	.67837	.6656	.755	2.375	8.2105
%RSD	260.16	54.869	1.2007	2.7395	112.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7345.1	6175.1	61633.	9462.8
Stddev	11.2	4.7	143.	27.0
%RSD	.15210	.07654	.23258	.28577

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.546%	84.910%	79.552%	92.378%
Range				

Sample Name: 240-12756-a-2-d@5 Acquired: 7/6/2012 21:49:27 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *NCM matrix*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17056	376970.	3.1760	49.791	.80869	2.5304	1477.1
Stddev	.34375	311.	1.0220	1.053	.07505	.0130	2.9
%RSD	201.54	.08263	32.178	2.1140	9.2809	.51466	.19609

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9387	12.357	1159.1	2259.2	21271.	1152.5	10.583
Stddev	.2296	.131	1.2	1.8	70.	66.0	1.584
%RSD	24.46	1.0618	.10749	.07807	.32843	5.7287	14.965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2051.2	681.72	43.344	250110.	821.19	3.6720	.9175
Stddev	16.7	.32	.093	2193.	1.64	.9418	1.859
%RSD	.81185	.04752	.21546	.87671	.20004	25.648	202.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12756-a-2-d@5 Acquired: 7/6/2012 21:49:27 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref.	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46628	3.2131	8.9260	-1.6506	2.2204	197.60	6086.3
Stddev	1.4064	.7689	.2005	1.1876	1.2820	.31	218.5
%RSD	301.62	23.929	2.2458	71.948	57.736	.15889	3.5909

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref.	(Y_3710)
Units	ppb
Avg	-7.2280
Stddev	1.6522
%RSD	22.859

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8585.3	7197.3	72887.	10157.
Stddev	8.7	2.7	165.	34.
%RSD	.10100	.03771	.22625	.33451

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.301%	98.965%	94.078%	99.157%
Range				

Sample Name: lb 240-49653/1-d Acquired: 7/6/2012 21:53:14 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

*use LB, MB, LBS for
12837 only (6010C)*

Elem	Ag3280 (Y_3600)	Al3082 (Y_3710)	As1890 (Y_2243)	B_1826 (Y_2243)	Ba4554 (Y_3710)	Be3130 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-46988	47.605	3.9011	3.8800	1.6751	-0.00339
Stddev	.18009	20.570	.7990	.3002	.1226	.02850
%RSD	38.326	43.210	20.480	7.7383	7.3181	841.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179 (Y_3710)	Cd2288 (Y_2243)	Co2286 (In2306)	Cr2677 (Y_3600)	Cu3273 (Y_3600)	Fe2599 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126.06	-1.141	.11989	.59271	4.1560	17.028
Stddev	1.42	.0654	.14498	.41121	.7566	1.347
%RSD	1.1278	57.33	120.93	69.379	18.204	7.9100

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664 (Y_3710)	Li6707 (Y_3710)	Mg2790 (Y_3710)	Mn2576 (Y_3600)	Mo2020 (Y_2243)	Na5895 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 2530.4	27.568	3.9747	2.5114	.12922	F 1118900.
Stddev	133.9	1.284	7.1236	.0443	.06776	55922.
%RSD	5.2922	4.6583	179.22	1.7631	52.436	4.9979

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	1000.0					1000.0
Low Limit	-1000.0					-1000.0

Sample Name: lb 240-49653/1-d Acquired: 7/6/2012 21:53:14 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.4089	-4.3205	.3596	1.8827	1.1472	-.09241
Stddev	.2710	.70506	1.697	.7336	.1967	.08180
%RSD	4.2282	163.19	471.9	38.964	17.146	88.522

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.60758	-1.7946	4.0941	203.86	-5.2948
Stddev	.55029	2.2904	.0441	33.70	1.3262
%RSD	90.571	127.63	1.0762	16.533	25.046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8146.2	6650.2	68014.	9848.2
Stddev	65.6	56.5	135.	64.9
%RSD	.80541	.85030	.19824	.65926

Sample Name: mb 240-49727/2-a Acquired: 7/6/2012 21:57:11 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.04201	-40.619	.82133	-1.6400	-.27479	-.02485	-9.7815
Stddev	.32201	28.793	.93622	.2340	.32818	.01248	.5025
%RSD	766.49	70.886	113.99	14.269	119.43	50.213	5.1370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0126	-.14693	-.55926	4.7227	4.1115	560.62	4.4460
Stddev	.0994	.08480	.28276	1.0580	.5859	27.75	1.4424
%RSD	787.4	57.716	50.559	22.402	14.251	4.9495	32.441

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0287	1.4939	.14082	F 1998.5	4.4752	.86041	-.0841
Stddev	7.9359	.0935	.16879	147.2	.4740	.92850	2.154
%RSD	771.48	6.2598	119.87	7.3679	10.592	107.91	2562.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				1000.0			
Low Limit				-1000.0			

Sample Name: mb 240-49727/2-a Acquired: 7/6/2012 21:57:11 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 ;
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref:	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7373	.46734	-.10414	.12858	-.17254	2.5818	14.300
Stddev	.9080	.02415	.26283	.30820	1.4061	.0571	5.921
%RSD	52.269	5.1675	252.39	239.69	814.94	2.2137	41.408

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-4.1955
Stddev	3.0269
%RSD	72.148

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9412.4	7162.6	75723.	9983.0
Stddev	89.8	57.1	603.	68.3
%RSD	.95427	.79677	.79595	.68370

Sample Name: CCV Acquired: 7/6/2012 22:01:00 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1002.7	25371.	500.91	5090.8	1982.6	2090.7	50612.	493.4	1976.7
Stddev	10.7	174.	6.97	60.7	8.5	7.4	262.	5.7	24.4
%RSD	1.0711	.68568	1.3910	1.1930	.43095	.35372	.51750	1.154	1.2324

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1930.2	1955.3	26637.	51577.	5209.5	52336.	1986.9	1973.2	50728.
Stddev	23.1	20.0	89.	193.	11.1	204.	30.9	24.5	242.
%RSD	1.1963	1.0245	.33501	.37332	.21359	.39003	1.5559	1.2403	.47674

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2068.1	482.12	490.4	505.70	5076.5	5269.7	1011.4	1972.4	2047.8
Stddev	27.8	5.52	7.5	5.14	63.6	88.8	9.8	9.9	13.4
%RSD	1.3450	1.1446	1.539	1.0164	1.2524	1.6860	.97075	.50286	.65338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 22:01:00 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4909.4	4937.4
Stddev	36.4	10.5
%RSD	.74170	.21318

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8559.2	6926.1	74005.	9788.3
Stddev	45.3	38.6	1107.	50.6
%RSD	.52965	.55690	1.4951	.51650

Sample Name: CCB Acquired: 7/6/2012 22:04:54 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26793	-.97211	.89010	10.101	1.1146	F 1.0649	17.063
Stddev	.64386	1.8859	2.1818	1.159	.2191	.3119	3.690
%RSD	240.31	194.00	245.12	11.476	19.659	29.290	21.625

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.0000	

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0214	.05482	-.27912	4.4881	14.458	325.24	6.3324
Stddev	.0935	.15686	.28701	.8417	5.337	26.18	.6191
%RSD	437.1	286.12	102.83	18.754	36.915	8.0501	9.7760

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.156	.40632	.05816	762.31	3.3763	1.3548	-.8179
Stddev	3.928	.31724	.16788	36.20	1.5260	.4910	.5252
%RSD	14.465	78.077	288.64	4.7489	45.197	36.245	64.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/6/2012 22:04:54 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0051	.22003	.98593	1.1701	-.46968	.21081	3.2091
Stddev	.7607	.19164	.44872	.5286	1.0557	.33572	3.9592
%RSD	37.938	87.096	45.512	45.176	224.77	159.26	123.38

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-1.7731
Stddev	9.5175
%RSD	536.76

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9722.5	7378.7	79056.	9793.3
Stddev	28.2	22.0	1473.	238.8
%RSD	.29028	.29790	1.8638	2.4381

Sample Name: lcs 240-49727/3-a Acquired: 7/6/2012 22:08:41 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.407	2032.0	2103.9	1057.2	2158.0	52.356
Stddev	.489	7.5	20.5	11.5	8.5	.271
%RSD	.89795	.36977	.97599	1.0861	.39596	.51838

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 117.99	50.39	514.03	201.35	258.77	1090.4
Stddev	1.24	.36	5.72	.56	.91	5.2
%RSD	1.0484	.7086	1.1137	.27825	.35152	.47425

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50000.					
Range	-20.500%					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 2014.8	1115.2	F 3.9744	529.02	1002.8	F 1235100.
Stddev	181.3	6.5	4.2868	1.53	8.1	24259.
%RSD	8.9965	.58018	107.86	.28908	.80960	1.9640

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value	50000.		50000.			50000.
Range	-20.500%		-20.500%			20.500%

Sample Name: lcs 240-49727/3-a Acquired: 7/6/2012 22:08:41 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	526.98	479.59	520.6	2127.9	2164.5	1111.1
Stddev	11.96	3.46	4.7	24.1	22.6	2.8
%RSD	2.2686	.72042	.8979	1.1313	1.0442	.25491

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1978.0	507.38	553.73	1166.4	1022.4
Stddev	18.8	3.44	7.87	16.6	9.1
%RSD	.94838	.67729	1.4218	1.4203	.89097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8042.8	6686.6	68230.	9861.5
Stddev	32.2	17.9	16.	2.9
%RSD	.39984	.26745	.02298	.02928

Sample Name: 240-12837-e-1-I Acquired: 7/6/2012 22:12:28 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.01839	23.398	5.0418	633.96	519.70	.23266
Stddev	.18384	25.697	.7527	2.37	.59	1.0321
%RSD	999.94	109.82	14.929	.37353	.11293	443.62

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 687400.	.8011	71.539	1.8993	10.804	76938.
Stddev	2881.	.0912	.494	.4057	.971	419.
%RSD	.41916	11.38	.69014	21.359	8.9914	.54401

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	500000.					
Low Limit	-500000.					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6351.6	79.489	8068.7	2637.3	15.358	F 1176600.
Stddev	159.3	3.030	5.9	8.1	.023	40244.
%RSD	2.5077	3.8121	.07257	.30591	.15210	3.4203

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-12837-e-1-I Acquired: 7/6/2012 22:12:28 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1913.0	7.8850	-3.892	3.9432	1.9032	-.80984
Stddev	3.3	.5878	1.875	1.5987	.3777	.19010
%RSD	.17419	7.4544	48.19	40.544	19.845	23.474

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.3212	.47292	1161.7	10784.	1450.7
Stddev	.6362	4.7390	1.7	90.	10.0
%RSD	19.155	1002.1	.14959	.83715	.69066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7580.8	6345.2	65500.	9463.9
Stddev	12.4	10.0	175.	22.3
%RSD	.16352	.15770	.26783	.23514

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.970%	87.249%	84.543%	92.388%
Range				

Sample Name: mb 240-49896/1-a Acquired: 7/6/2012 22:16:36 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *Batu is 6010C* *RL=5*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.30041	9.9492	.61545	2.8513	2.7556	.04203	328.27
Stddev	.21162	14.516	.69326	.5503	.2813	.00927	59.94
%RSD	70.443	145.90	112.64	19.299	10.210	22.047	18.259

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0737	.03515	-.19776	F 8.9053	84.811	664.16	3.2633
Stddev	.1266	.15564	.12430	.5679	5.584	5.20	.8159
%RSD	171.8	442.74	62.857	6.3771	6.5844	.78263	25.002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-1000.0			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55.786	1.2287	.14388	F 2501.2	.90139	1.2731	-.6337
Stddev	16.175	.0169	.08888	255.1	.77356	.5269	1.721
%RSD	28.995	1.3735	61.772	10.200	85.819	41.386	271.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				1000.0			
Low Limit				-1000.0			

Sample Name: mb 240-49896/1-a Acquired: 7/6/2012 22:16:36 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4429	28.618	.10680	-.24831	-1.0121	6.8222	38.685
Stddev	.5105	.688	.08997	.16424	3.4357	.3416	9.096
%RSD	35.380	2.4030	84.242	66.144	339.45	5.0069	23.513

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-4.6660
Stddev	3.2980
%RSD	70.681

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9539.8	7316.7	78012.	9921.5
Stddev	95.9	68.4	576.	29.1
%RSD	1.0052	.93483	.73817	.29282

Sample Name: lcs 240-49896/2-a Acquired: 7/6/2012 22:20:23 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.049	1975.6	1939.3	1002.4	2079.9	51.228	51128.	48.16	483.36
Stddev	.970	37.4	2.2	1.2	33.7	.863	822.	.14	1.10
%RSD	1.9389	1.8947	.11130	.12438	1.6186	1.6843	1.6078	.2896	.22850

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	193.32	247.62	1154.2	52036.	1049.0	53071.	508.22	992.89	51165.
Stddev	1.68	2.56	15.0	785.	13.4	772.	5.40	1.53	823.
%RSD	.86921	1.0339	1.3032	1.5095	1.2762	1.4547	1.0625	.15437	1.6094

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	482.56	477.14	501.4	1938.9	2040.2	1085.6	1953.2	491.06	508.49
Stddev	1.05	1.25	3.6	5.8	6.6	12.6	6.3	9.34	1.11
%RSD	.21754	.26274	.7237	.29685	.32139	1.1579	.32102	1.9023	.21878

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: lcs 240-49896/2-a Acquired: 7/6/2012 22:20:23 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:.

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	996.92	978.46
Stddev	11.81	11.69
%RSD	1.1849	1.1949

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8705.9	6885.0	72345.	9635.8
Stddev	25.5	19.9	372.	27.5
%RSD	.29320	.28968	.51442	.28570

Sample Name: 240-12817-b-3-c Acquired: 7/6/2012 22:24:00 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.08607	41840.	28.578	4.6758	116.02	3.4564	1365.9
Stddev	.03586	473.	.362	.1980	.83	.0510	10.7
%RSD	41.663	1.1296	1.2661	4.2338	.71365	1.4745	.78297

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1636	35.830	88.049	58.188	114220.	2814.2	23.933
Stddev	.0719	.439	.723	.726	1911.	18.3	.880
%RSD	43.95	1.2242	.82104	1.2475	1.6732	.64934	3.6755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2554.5	256.95	3.6670	911.25	44.907	30.041	1.527
Stddev	15.9	1.96	.1347	22.09	1.684	.571	2.461
%RSD	.62404	.76098	3.6729	2.4237	3.7503	1.9014	161.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12817-b-3-c Acquired: 7/6/2012 22:24:00 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.2438	17.856	965.51	-1.3524	168.96	118.62	2435.8
Stddev	.5969	.302	7.53	.9407	.71	.91	31.2
%RSD	18.401	1.6905	.78022	69.556	.42055	.76970	1.2820

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	5.4278
Stddev	2.0085
%RSD	37.004

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9237.4	8075.6	83584.	10838.
Stddev	38.7	28.1	679.	121.
%RSD	.41865	.34754	.81257	1.1176

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.009%	111.04%	107.88%	105.81%
Range				

Sample Name: SD 240-12817-b-3-c@5 Acquired: 7/6/2012 22:27:52 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-63291	9450.7	7.6836	-78920	26.377	.75211	295.64	-.0961
Stddev	.08914	6.9	.4177	.27142	.002	.10379	5.60	.0932
%RSD	14.083	.07253	5.4366	34.392	.00754	13.800	1.8945	96.90

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.4029	19.021	17.162	26197.	869.38	5.7678	592.68	57.026
Stddev	.1504	.519	.903	69.	30.17	.9018	22.07	.605
%RSD	2.0317	2.7267	5.2643	.26195	3.4701	15.636	3.7237	1.0612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.94974	607.88	9.4061	7.4525	1.219	2.6565	4.1579	210.41
Stddev	.03519	14.38	.4441	.1829	2.801	.6742	.4521	1.96
%RSD	3.7055	2.3650	4.7212	2.4546	229.8	25.379	10.874	.93200

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-12817-b-3-c@5 Acquired: 7/6/2012 22:27:52 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem.	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.34418	37.970	26.078	546.37	-.53164
Stddev	.61116	.484	.169	8.36	1.6703
%RSD	177.57	1.2742	.64747	1.5300	314.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9335.4	7385.7	77320.	9745.6
Stddev	6.4	5.9	371.	20.7
%RSD	.06904	.07944	.48003	.21222

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.017%	101.56%	99.800%	95.139%
Range				

Sample Name: 240-12817-b-3-d.ms Acquired: 7/6/2012 22:31:38 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.434	61101.	1627.1	830.36	1924.4	47.280	44587.
Stddev	.579	204.	16.4	8.12	5.9	.207	110.
%RSD	1.3653	.33455	1.0087	.97834	.30493	.43775	.24691

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(Y_2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.10	512.41	272.67	259.77	105190.	48127.	927.15
Stddev	.45	5.70	.56	.43	246.	139.	2.33
%RSD	1.128	1.1117	.20721	.16590	.23419	.28975	.25097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49093.	645.50	808.29	44794.	531.39	427.57	270.6
Stddev	117.	1.21	7.04	108.	7.36	4.29	2.0
%RSD	.23896	.18675	.87097	.24017	1.3853	1.0037	.7525

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12817-b-3-d ms Acquired: 7/6/2012 22:31:38 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1603.8	1914.8	2177.6	1894.4	625.20	612.39	4868.9
Stddev	14.6	18.4	4.0	21.5	4.19	7.34	19.7
%RSD	.90937	.96227	.18573	1.1371	.66952	1.1979	.40491

Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Sr3464 (Y_3710)
Units	ppb
Avg	864.28
Stddev	3.64
%RSD	.42093

Check ? High Limit Low Limit	Chk Pass
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Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8630.5	8044.9	83157.	10992.
Stddev	71.2	53.8	191.	21.
%RSD	.82468	.66868	.22927	.19101

Check ? Value Range	Chk Pass 88.767%	Chk Pass 110.62%	Chk Pass 107.33%	Chk Pass 107.31%
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Sample Name: 240-12817-b-3-e msd Acquired: 7/6/2012 22:35:16 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.155	64017.	1716.5	883.15	2029.6	50.383	47600.	42.78	519.97
Stddev	.300	269.	2.8	.89	9.3	.325	188.	.06	.07
%RSD	.66461	.42038	.16347	.10092	.46044	.64470	.39561	.1364	.01340

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	257.44	277.26	95153.	50433.	989.87	52108.	808.51	861.45	47734.
Stddev	.18	.16	416.	220.	3.82	287.	1.44	.85	80.
%RSD	.07170	.05600	.43735	.43592	.38619	.55067	.17846	.09909	.16757

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	532.50	448.32	277.4	1695.2	1927.6	2173.7	1919.0	611.68	625.64
Stddev	.34	.41	1.3	4.0	2.6	5.0	4.1	3.65	1.17
%RSD	.06334	.09117	.4638	.23703	.13245	.22811	.21111	.59621	.18768

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12817-b-3-e msd Acquired: 7/6/2012 22:35:16 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4715.1	911.83
Stddev	4.1	7.50
%RSD	.08616	.82205

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8583.9	7620.3	78849.	10413.
Stddev	27.3	18.8	47.	23.
%RSD	.31778	.24610	.05998	.22274

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.288%	104.78%	101.77%	101.65%
Range				

Sample Name: PDS 240-12817-b-3-c Acquired: 7/6/2012 22:38:53 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.340	45778.	280.13	2627.6	161.20	26.635	10504.
Stddev	.311	167.	2.73	17.0	.76	.136	39.
%RSD	.35650	.36426	.97415	.64861	.47024	.51048	.37354

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	292.1	179.62	258.49	451.00	117020.	7331.5	22.726
Stddev	1.6	1.49	.57	.87	1387.	67.5	1.406
%RSD	.5526	.83019	.21893	.19200	1.1853	.92084	6.1874

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5412.2	276.13	89.937	46893.	283.10	156.36	128.8
Stddev	51.1	.51	.431	105.	3.56	1.40	3.0
%RSD	.94486	.18606	.47912	.22287	1.2569	.89448	2.359

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PDS 240-12817-b-3-c Acquired: 7/6/2012 22:38:53 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	339.60	319.09	1448.9	439.56	214.93	613.99	2463.9
Stddev	3.30	3.22	4.0	3.53	.91	4.87	13.1
%RSD	.97120	1.0104	.27940	.80198	.42390	.79236	.53227

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4.3269
Stddev	2.6577
%RSD	61.421

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8930.5	7954.7	82577.	10723.
Stddev	17.9	12.7	101.	57.
%RSD	.20001	.15906	.12260	.53326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.852%	109.38%	106.59%	104.68%
Range				

Sample Name: 240-12817-c-37-b Acquired: 7/6/2012 22:42:40 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-55016	97636.	44.330	12.847	339.94	5.4521	8779.7
Stddev	.09356	180.	.961	.246	1.06	.0825	21.5
%RSD	17.007	.18475	2.1674	1.9152	.31238	1.5127	.24544

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7185	31.048	165.03	75.177	169770.	3626.2	72.802
Stddev	.1172	.236	2.32	1.865	736.	15.6	1.491
%RSD	16.32	.76059	1.4069	2.4804	.43373	.42953	2.0474

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8191.0	445.30	5.5905	632.67	61.140	78.025	2.900
Stddev	9.0	6.18	.0164	11.47	1.684	2.096	1.305
%RSD	.10983	1.3874	.29378	1.8129	2.7536	2.6864	45.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12817-c-37-b Acquired: 7/6/2012 22:42:40 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0195	16.656	1154.0	-73028	256.49	228.14	2424.9
Stddev	1.7953	.275	16.7	.80761	2.31	1.52	5.4
%RSD	25.576	1.6516	1.4441	110.59	.90244	.66490	.22134

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	45.946
Stddev	6.591
%RSD	14.345

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9047.4	7679.8	78450.	10151.
Stddev	39.4	29.3	274.	13.
%RSD	.43603	.38190	.34886	.12693

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.054%	105.60%	101.26%	99.097%
Range				

Sample Name: CCV Acquired: 7/6/2012 22:46:30 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1000.0	25403.	491.67	5030.6	1978.0	2135.8	50632.	482.3	1964.2
Stddev	12.2	96.	3.40	32.7	3.0	3.5	132.	3.5	12.8
%RSD	1.2201	.37609	.69171	.65066	.15197	.16182	.26055	.7322	.65406

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1919.1	1935.0	27410.	52056.	5300.0	54194.	2007.0	1950.0	52371.
Stddev	21.5	24.5	156.	108.	9.8	158.	15.6	13.5	44.
%RSD	1.1195	1.2678	.56880	.20821	.18443	.29154	.77930	.69054	.08396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1961.0	476.27	476.1	496.73	5089.0	5303.9	1009.7	1973.6	2026.3
Stddev	13.6	3.06	5.1	2.29	32.2	61.9	7.8	2.8	12.7
%RSD	.69591	.64345	1.081	.46164	.63277	1.1670	.77315	.14410	.62814

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 22:46:30 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4879.9	4950.3
Stddev	24.4	18.3
%RSD	.49921	.36887

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8607.1	7029.0	72469.	9324.1
Stddev	21.6	21.8	481.	32.8
%RSD	.25071	.31005	.66316	.35211

Sample Name: CCB Acquired: 7/6/2012 22:50:25 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.37329	.19348	1.9747	12.265	.30939	.28277	-1.2874
Stddev	.12365	12.171	.6326	1.223	.17615	.12907	2.8364
%RSD	33.124	6290.5	32.035	9.9733	56.936	45.647	220.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0082	.23715	-.40457	F 6.1232	8.0740	274.16	4.3043
Stddev	.1221	.09103	.31673	.9351	2.2204	6.21	.8845
%RSD	1496.	38.383	78.289	15.271	27.500	2.2654	20.549

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.720	.02294	.01669	274.50	.58610	.98407	2.313
Stddev	13.933	.06945	.16354	12.12	.98473	.28033	1.075
%RSD	118.89	302.71	980.05	4.4168	168.01	28.487	46.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/6/2012 22:50:25 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9007	.97642	.16655	.64997	-.46520	-.71700	-3.9869
Stddev	1.5166	.53927	.17715	.39908	.49057	.22798	2.9163
%RSD	79.792	55.229	106.36	61.399	105.45	31.796	73.148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-5.5556
Stddev	7.0661
%RSD	127.19

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9453.7	7245.9	75408.	9477.9
Stddev	50.9	31.1	122.	18.2
%RSD	.53797	.42892	.16157	.19164

Sample Name: 240-12837-d-1-b Acquired: 7/6/2012 22:54:13 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8186	46672.	106.11	231.36	418.29	2.3430	266880.
Stddev	.4382	106.	1.15	.75	.98	.9107	2419.
%RSD	15.545	.22753	1.0859	.32302	.23493	38.869	.90657

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

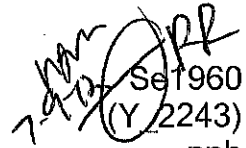
Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.29	127.26	1756.9	2505.8	F 736260.	5038.0	80.211
Stddev	.24	.51	2.3	3.8	6377.	52.4	1.396
%RSD	.9894	.40346	.13249	.14992	.86613	1.0397	1.7405

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					500000.		
Low Limit					-500000.		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37683.	4285.2	95.887	7624.9	3233.8	11159.	2.865
Stddev	171.	26.2	.285	230.0	12.6	13.	3.231
%RSD	.45360	.61238	.29734	3.0164	.38964	.11407	112.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12837-d-1-b Acquired: 7/6/2012 22:54:13 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	 Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.212	85.213	642.32	9.6582	80.759	4576.3	5611.6
Stddev	2.976	.747	.69	.0906	2.588	21.4	18.2
%RSD	15.490	.87650	.10797	.93833	3.2044	.46864	.32403

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	448.93
Stddev	5.87
%RSD	1.3067

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8278.5	7112.7	72460.	9602.3
Stddev	61.0	51.6	265.	59.6
%RSD	.73689	.72577	.36529	.62024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.147%	97.803%	93.527%	93.740%
Range				

Sample Name: 240-12866-c-17-b Acquired: 7/6/2012 22:58:17 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.5604	45541.	33.976	45.287	844.22	6.0327	80721.
Stddev	.3623	191.	.529	.439	2.73	.0119	595.
%RSD	5.5223	.41841	1.5577	.96881	.32283	.19766	.73757

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.82	41.252	284.78	459.35	112600.	9531.0	39.258
Stddev	.19	.108	.53	.30	2051.	22.0	1.061
%RSD	.5955	.26163	.18504	.06478	1.8212	.23036	2.7033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37782.	2331.8	14.344	817.96	194.48	4219.1	58.14
Stddev	208.	6.3	.254	17.25	1.94	4.5	.76
%RSD	.55109	.26965	1.7706	2.1084	.99680	.10666	1.300

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12866-c-17-b Acquired: 7/6/2012 22:58:17 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.2102	35.527	1894.2	-.37944	309.38	4211.3	3354.8
Stddev	1.7324	.570	1.4	.78035	2.90	4.0	10.8
%RSD	33.250	1.6041	.07589	205.66	.93599	.09548	.32170

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	226.23
Stddev	4.58
%RSD	2.0230

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8907.1	7878.2	81741.	10596.
Stddev	6.0	11.6	192.	88.
%RSD	.06723	.14704	.23430	.82914

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.612%	108.33%	105.51%	103.44%
Range				

Sample Name: 240-12866-a-20-b Acquired: 7/6/2012 23:02:22 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3317	33311.	20.226	5.5739	167.72	12.476	1943.1
Stddev	.0238	20.	.883	.1756	.21	.020	10.8
%RSD	1.0212	.06049	4.3657	3.1502	.12463	.15657	.55443

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(Y_2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0287	41.840	96.773	106.91	119130.	4732.9	25.536
Stddev	.0447	.074	1.351	1.90	1592.	28.0	.274
%RSD	155.8	.17601	1.3956	1.7764	1.3367	.59167	1.0728

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3243.3	244.09	2.1476	497.47	184.28	46.249	-1.756
Stddev	19.1	3.41	.0804	8.60	.33	.477	.692
%RSD	.58844	1.3961	3.7418	1.7282	.17925	1.0309	39.39

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12866-a-20-b Acquired: 7/6/2012 23:02:22 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.63857	18.717	934.02	-6.1401	186.31	330.54	2269.7
Stddev	.73923	.435	11.56	.4405	2.15	.72	6.0
%RSD	115.76	2.3248	1.2372	7.1734	1.1566	.21915	.26235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	26.698
Stddev	2.447
%RSD	9.1638

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9517.3	W 10515.	W 108850.	13295.
Stddev	35.1	38.	355.	139.
%RSD	.36850	.36254	.32598	1.0472

Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Pass
Value	97.888%	144.58%	140.50%	129.79%
Range		30.500%	30.500%	

valid at 1300h

Sample Name: mb 240-48896/1-a Acquired: 7/6/2012 23:06:12 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Batch is 6010C

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25471	-20.499	.03711	-2.7779	1.3145	-.06218	185.46
Stddev	.26760	6.987	.54696	.1082	.1419	.03489	1.26
%RSD	105.06	34.083	1473.9	3.8943	10.795	56.105	.68070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0102	-.17861	-.13358	F 6.7148	F 103.09	203.27	1.1910
Stddev	.2078	.27716	.35441	.9605	5.90	37.68	2.0868
%RSD	2032.	155.18	265.32	14.305	5.7211	18.536	175.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit				5.0000	100.00		
Low Limit				-1000.0	-1000.0		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80.004	.90906	.08465	242.77	.17501	.68417	.6692
Stddev	8.725	.04315	.03583	14.23	.22369	.70294	2.002
%RSD	10.906	4.7471	42.324	5.8603	127.82	102.74	299.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 240-48896/1-a Acquired: 7/6/2012 23:06:12 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3171	31.407	.12513	-.22241	-.63895	6.1456	10.482
Stddev	1.1708	.559	.09572	.54941	2.0285	.1240	7.950
%RSD	88.893	1.7786	76.494	247.02	317.48	2.0169	75.846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-7.7608
Stddev	3.6557
%RSD	47.104

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9749.1	7548.4	78807.	9992.2
Stddev	64.5	51.9	913.	70.4
%RSD	.66175	.68779	1.1585	.70473

Sample Name: lcs 240-48896/2-a Acquired: 7/6/2012 23:09:59 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.974	2004.9	1943.6	1016.7	2121.4	52.952	53071.	48.10	487.84
Stddev	.356	7.4	11.7	7.3	5.5	.066	155.	.36	3.75
%RSD	.68551	.36866	.60230	.71396	.25956	.12403	.29188	.7483	.76928

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	195.49	251.36	1158.3	54216.	1083.1	56400.	519.35	999.55	54491.
Stddev	.38	1.84	3.1	183.	2.3	137.	1.16	7.41	217.
%RSD	.19600	.73176	.26760	.33733	.20774	.24271	.22348	.74142	.39787

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	487.80	478.05	498.9	1956.1	2066.2	1114.0	1982.9	499.31	504.23
Stddev	3.16	4.07	5.4	16.0	13.9	.9	13.8	3.78	3.64
%RSD	.64722	.85100	1.075	.81859	.67502	.08310	.69397	.75725	.72152

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value,
 Range

Sample Name: lcs 240-48896/2-a Acquired: 7/6/2012 23:09:59 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	1015.0	994.79
Stddev	3.3	2.46
%RSD	.32552	.24736

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8943.2	7141.5	73950.	9737.3
Stddev	37.5	30.5	253.	41.3
%RSD	.41897	.42775	.34251	.42409

Sample Name: 240-12621-m-2-a Acquired: 7/6/2012 23:13:36 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	552.08	224220.	44.356	435.69	4393.6	23.572	151320.
Stddev	.84	769.	1.460	2.43	228.0	.127	673.
%RSD	.15175	.34277	3.2925	.55781	5.1891	.53820	.44460

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	412.6	77.186	1114.4	19229.	210720.	6959.7	156.77
Stddev	1.9	.482	1.9	344.	2953.	67.9	1.77
%RSD	.4687	.62419	.17111	1.7890	1.4014	.97616	1.1292

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23079.	5709.4	209.78	4145.8	1001.4	5101.8	148.8
Stddev	112.	15.0	1.45	13.3	5.8	26.8	2.1
%RSD	.48319	.26207	.68900	.31973	.58023	.52509	1.396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12621-m-2-a Acquired: 7/6/2012 23:13:36 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.3272	964.79	2401.6	3.7478	214.18	F 14940.	9337.8
Stddev	.7285	5.71	2.0	.5453	2.57	111.	42.9
%RSD	7.8102	.59220	.08473	14.549	1.1989	.74119	.45899

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	810.68
Stddev	2.75
%RSD	.33942

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8832.4	7627.4	76726.	10398.
Stddev	40.7	34.5	342.	28.
%RSD	.46058	.45256	.44528	.26691

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.843%	104.88%	99.033%	101.51%
Range				

Sample Name: SD -12621-m-2-a@5 Acquired: 7/6/2012 23:18:06 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	114.10	47683.	10.201	91.243	970.05	4.9911	32944.	87.75	15.543
Stddev	1.30	121.	.118	.458	3.94	.0271	127.	.31	.208
%RSD	1.1404	.25471	1.1526	.50246	.40627	.54208	.38509	.3483	1.3351

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	234.82	4058.3	46884.	1606.2	32.658	5111.0	1260.2	45.212	967.63
Stddev	1.81	45.2	106.	42.2	.863	6.2	9.4	.188	12.42
%RSD	.76982	1.1132	.22590	2.6256	2.6415	.12142	.74938	.41502	1.2832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	203.46	1080.6	35.70	3.2369	195.48	501.66	1.8297	45.463	3132.8
Stddev	1.66	2.9	2.75	.8447	1.34	3.85	1.2523	1.640	14.7
%RSD	.81408	.27216	7.707	26.097	.68598	.76838	68.439	3.6069	.46844

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: SD -12621-m-2-a@5 Acquired: 7/6/2012 23:18:06 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	1984.3	164.96
Stddev	10.0	2.99
%RSD	.50592	1.8130

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9508.9	7580.1	77710.	9951.8
Stddev	37.5	23.2	347.	18.8
%RSD	.39464	.30621	.44707	.18890

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.802%	104.23%	100.30%	97.151%
Range				

Sample Name: 240-12621-m-2-b du Acquired: 7/6/2012 23:21:48 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	164.01	86336.	45.010	81.343	1076.3	17.026	30451.
Stddev	.88	511.	1.331	.432	4.7	.179	183.
%RSD	.53917	.59138	2.9579	.53085	.43260	1.0485	.60042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	110.6	222.24	413.65	2706.2	303080.	5357.2	31.629
Stddev	.5	1.61	.81	3.5	619.	43.0	.224
%RSD	.4741	.72342	.19511	.12975	.20415	.80181	.70694

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6390.3	2609.7	34.908	1076.0	497.34	2321.6	50.74
Stddev	44.1	28.3	.237	27.6	3.16	14.9	1.04
%RSD	.68987	1.0862	.67827	2.5660	.63575	.64117	2.056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12621-m-2-b du Acquired: 7/6/2012 23:21:48 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.3149	225.87	2257.7	1.9115	573.92	4370.9	4233.3
Stddev	2.1994	2.04	2.2	.8624	4.79	29.3	44.9
%RSD	41.382	.90204	.09635	45.116	.83538	.67053	1.0612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	179.47
Stddev	2.48
%RSD	1.3822

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9167.5	8469.5	86013.	11259.
Stddev	50.1	32.8	119.	29.
%RSD	.54621	.38737	.13886	.26043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.290%	116.46%	111.02%	109.91%
Range				

Sample Name: 240-12621-m-2-c ms Acquired: 7/6/2012 23:25:43 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	246.12	121910.	1690.1	1036.1	3864.8	63.279	85354.
Stddev	.59	101.	8.5	7.7	36.5	.233	1289.
%RSD	.23935	.08324	.50374	.73927	.94421	.36810	1.5096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	188.6	734.23	662.36	4149.9	292460.	53871.	1007.4
Stddev	1.1	4.99	.74	7.3	2504.	131.	3.3
%RSD	.6052	.67976	.11225	.17679	.85629	.24391	.32778

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56954.	3959.8	879.95	51071.	1131.9	2361.7	334.1
Stddev	216.	114.7	5.96	85.	8.9	13.8	.2
%RSD	.37897	2.8959	.67736	.16622	.78722	.58346	.0533

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12621-m-2-c ms Acquired: 7/6/2012 23:25:43 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1598.8	2285.7	3613.4	1944.5	976.57	6752.6	10743.
Stddev	13.5	16.7	7.7	15.5	3.15	46.3	12.
%RSD	.84670	.72964	.21277	.79609	.32289	.68524	.11181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1125.4
Stddev	4.7
%RSD	.42134

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8609.8	8088.1	82043.	10826.
Stddev	36.0	24.7	344.	35.
%RSD	.41863	.30481	.41904	.32290

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.554%	111.21%	105.90%	105.68%
Range				

Sample Name: PDS 240-12621-m-2-a Acquired: 7/6/2012 23:30:04 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

*Will show as
 NC spike is
 Diluted out*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	644.63	224530.	321.83	3381.6	4368.4	48.826	158670.
Stddev	1.50	778.	2.17	2.7	244.9	.204	2130.
%RSD	.23229	.34630	.67553	.07894	5.6056	.41811	1.3422

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2206)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	728.6	227.46	1284.6	19531.	212300.	11952.	154.04
Stddev	1.1	.61	.6	233.	2285.	15.	.56
%RSD	.1477	.26617	.05051	1.1909	1.0761	.12820	.36152

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25793.	5657.5	300.59	55470.	1249.0	5138.5	289.0
Stddev	47.	40.8	.14	275.	1.4	8.9	2.3
%RSD	.18254	.72032	.04640	.49580	.11442	.17278	.8019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PDS 240-12621-m-2-a Acquired: 7/6/2012 23:30:04 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	384.44	1284.4	2917.4	465.38	257.20	F 15414.	9228.5
Stddev	1.44	3.5	9.3	1.90	2.52	28.	57.0
%RSD	.37508	.26943	.31709	.40860	.97800	.18477	.61754

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	795.32
Stddev	3.81
%RSD	.47925

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8723.8	7646.3	76598.	10401.
Stddev	14.2	32.5	178.	47.
%RSD	.16308	.42463	.23220	.45481

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.727%	105.14%	98.868%	101.54%
Range				

Sample Name: CCV Acquired: 7/6/2012 23:34:35 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1014.8	25317.	492.93	5071.4	1987.1	2159.2	50702.	478.4	1971.6
Stddev	1.8	25.	7.80	83.5	3.2	7.7	40.	8.0	33.7
%RSD	.17923	.09678	1.5819	1.6472	.15914	.35609	.07925	1.666	1.7080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1934.0	1963.6	27485.	52185.	5334.9	54790.	2025.8	1952.1	52619.
Stddev	3.4	4.5	136.	142.	22.1	296.	11.8	31.2	201.
%RSD	.17803	.22927	.49636	.27119	.41416	.54088	.58095	1.5994	.38165

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1971.0	476.59	472.5	497.16	5125.1	5362.2	1015.7	1979.5	2035.2
Stddev	32.8	6.11	7.6	9.14	86.1	15.1	16.8	6.4	34.2
%RSD	1.6621	1.2816	1.607	1.8385	1.6797	.28096	1.6499	.32087	1.6795

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/6/2012 23:34:35 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4841.7	4939.7
Stddev	14.1	15.4
%RSD	.29193	.31094

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Uhits	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8907.3	7318.7	74795.	9735.5
Stddev	100.4	72.2	238.	8.2
%RSD	1.1273	.98705	.31850	.08398

Sample Name: CCB Acquired: 7/6/2012 23:38:30 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.42889	5.6055	.83688	14.432	.38033	.38762	5.6578
Stddev	.48879	28.290	1.4946	1.704	.12526	.13246	5.3494
%RSD	113.97	504.67	178.59	11.807	32.934	34.172	94.549

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1107	-.04483	-.62509	F 7.4117	13.181	269.75	4.5667
Stddev	.1131	.13808	.11450	.4458	9.691	12.30	.9139
%RSD	102.1	308.04	18.317	6.0152	73.527	4.5600	20.013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.807	.12951	.22473	171.83	-.52092	.55698	-.1138
Stddev	9.161	.05101	.05869	14.65	.04667	.35980	1.363
%RSD	71.527	39.384	26.116	8.5253	8.9587	64.599	1198.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/6/2012 23:38:30 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0366	.87665	.29851	.63586	1.4557	-.69438	4.0287
Stddev	1.3738	.18805	.01325	.37673	1.2464	.06694	.5229
%RSD	67.455	21.451	4.4375	59.248	85.620	9.6410	12.980

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-7.8763
Stddev	2.1323
%RSD	27.073

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9846.6	7591.6	79067.	9819.4
Stddev	27.3	23.8	191.	20.3
%RSD	.27767	.31353	.24126	.20717

Sample Name: 240-12621-m-2-a@5 Acquired: 7/6/2012 23:42:19 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	112.18	46892.	10.700	95.116	955.24	5.0079	32417.	85.49	15.260
Stddev	1.33	208.	.836	.335	3.17	.0240	130.	.12	.156
%RSD	1.1829	.44343	7.8095	.35229	.33201	.47915	.40063	.1404	1.0226

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	231.86	3983.6	46560.	1624.3	36.166	5082.5	1238.6	44.049	959.27
Stddev	1.95	41.6	176.	36.0	.242	22.4	12.4	.264	12.83
%RSD	.83945	1.0443	.37899	2.2154	.66847	.44088	.99842	.59985	1.3374

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	199.08	1056.7	31.80	2.4596	193.07	507.10	2.1808	44.313	3070.1
Stddev	.32	.7	1.13	.5399	.20	5.61	.4067	1.427	10.1
%RSD	.16054	.06647	3.543	21.951	.10614	1.1068	18.650	3.2206	.32842

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: 240-12621-m-2-a@5 Acquired: 7/6/2012 23:42:19 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	2117.0	166.64
Stddev	6.0	3.82
%RSD	.28116	2.2894

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9599.5	7662.8	77668.	9931.1
Stddev	80.8	53.3	244.	52.6
%RSD	.84177	.69551	.31430	.52992

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.733%	105.37%	100.25%	96.950%
Range				

Sample Name: SD240-12621-m-2-a@25 Acquired: 7/6/2012 23:46:00 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.912	9547.3	4.1363	19.037	192.03	1.0517	6511.6	17.34	3.1244
Stddev	.754	52.3	1.8917	.121	1.29	.0409	42.3	.16	.1551
%RSD	3.2897	.54760	45.735	.63610	.67082	3.8906	.64898	.9248	4.9637

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.866	804.04	9396.3	448.56	9.9670	1043.5	253.25	8.9364	275.69
Stddev	.215	.59	67.4	23.18	1.5877	17.0	.21	.0241	8.53
%RSD	.45902	.07343	.71763	5.1680	15.929	1.6286	.08302	.26960	3.0952

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.068	218.85	7.036	1.5900	38.906	101.85	.66290	10.764	615.08
Stddev	.587	1.94	.865	1.4040	.568	.58	.40813	.821	7.43
%RSD	1.4640	.88611	12.30	88.299	1.4611	.57409	61.568	7.6255	1.2075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: SD240-12621-m-2-a@25 Acquired: 7/6/2012 23:46:00 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	427.95	27.364
Stddev	8.08	.569
%RSD	1.8870	2.0809

Check ? Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9798.4	7652.8	78787.	10026.
Stddev	72.1	55.8	318.	66.
%RSD	.73603	.72864	.40358	.65801

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 Value 100.78% 105.23% 101.69% 97.873%
 Range

Sample Name: 240-12621-m-2-b du@5 Acquired: 7/6/2012 23:49:44 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.841	19449.	11.334	18.532	239.80	3.8252	6826.2	25.05	45.163
Stddev	.580	207.	2.110	.338	2.66	.0732	65.5	.05	.162
%RSD	1.5736	1.0629	18.614	1.8262	1.1072	1.9146	.95986	.2046	.35924

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.988	604.11	71996.	1377.7	10.971	1492.6	606.97	7.9692	311.51
Stddev	.339	.49	803.	40.2	.409	28.2	3.54	.0191	1.25
%RSD	.36418	.08153	1.1155	2.9205	3.7319	1.8898	.58253	.23936	.40034

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	100.36	529.50	12.16	2.3852	46.493	506.13	.78676	128.52	896.38
Stddev	.15	.74	2.70	.3903	.349	2.37	.28252	1.85	.38
%RSD	.14627	.13954	22.16	16.363	.75133	.46821	35.909	1.4424	.04235

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12621-m-2-b du@5 Acquired: 7/6/2012 23:49:44 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	940.09	32.696
Stddev	6.40	6.126
%RSD	.68035	18.737

Check ? Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9631.0	7801.8	80026.	10079.
Stddev	7.2	2.7	439.	71.
%RSD	.07489	.03478	.54905	.70424

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 Value 99.058% 107.28% 103.29% 98.397%
 Range

Sample Name: 240-12621-m-2-c ms@5 Acquired: 7/6/2012 23:53:27 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.503	26953.	372.39	229.17	858.31	14.114	19176.	41.34	145.97
Stddev	.813	12.	6.40	2.90	1.39	.060	13.	.55	1.58
%RSD	1.5187	.04268	1.7186	1.2673	.16171	.42345	.06741	1.324	1.0806

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	147.40	902.97	68502.	12024.	228.40	13115.	933.84	195.65	11402.
Stddev	1.15	5.84	56.	36.	1.44	36.	6.55	1.85	43.
%RSD	.77933	.64695	.08199	.29593	.63249	.27340	.70131	.94337	.37993

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	224.87	530.54	72.45	359.32	456.46	809.51	396.79	217.80	1358.3
Stddev	3.40	5.83	1.98	5.88	6.36	4.75	4.84	1.34	16.9
%RSD	1.5137	1.0990	2.731	1.6376	1.3934	.58730	1.2206	.61733	1.2456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: 240-12621-m-2-c ms@5 Acquired: 7/6/2012 23:53:27 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	2331.2	246.02
Stddev	23.1	6.79
%RSD	.98918	2.7579

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9458.7	7762.3	78689.	10002.
Stddev	105.0	85.7	385.	47.
%RSD	1.1102	1.1044	.48910	.47483

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.285%	106.73%	101.57%	97.640%
Range				

Sample Name: PDS240-12621-m-2-a@5 Acquired: 7/6/2012 23:57:06 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *not needed*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	206.80	51108.	281.64	2974.9	997.89	30.286	42011.	395.1	154.49
Stddev	.85	75.	1.08	12.0	.93	.093	66.	2.8	.91
%RSD	.41278	.14757	.38466	.40289	.09358	.30562	.15736	.7117	.58688

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	412.88	4367.0	50742.	6576.6	35.370	8185.9	1252.7	135.87	51427.
Stddev	.89	6.7	86.	51.0	.515	12.9	2.2	.63	209.
%RSD	.21607	.15394	.17015	.77573	1.4558	.15746	.17844	.46232	.40729

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	431.94	1172.0	167.3	372.42	490.87	1035.6	436.49	93.208	3624.9
Stddev	2.12	6.1	2.7	2.43	1.78	2.7	1.95	.775	14.3
%RSD	.49080	.51818	1.630	.65160	.36220	.26520	.44690	.83162	.39342

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: PDS240-12621-m-2-a@5 Acquired: 7/6/2012 23:57:06 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	2111.7	164.01
Stddev	8.7	1.59
%RSD	.41293	.96810

Check ? Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9328.5	7624.3	77142.	9942.6
Stddev	24.9	28.7	314.	35.8
%RSD	.26653	.37622	.40724	.35969

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 Value 95.946% 104.84% 99.569% 97.062%
 Range

Sample Name: 240-12621-e-1-a Acquired: 7/7/2012 0:00:44 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	463.44	336690.	100.37	1096.6	6358.4	3.1307	223230.
Stddev	.78	1932.	2.62	14.8	60.6	.0796	1040.
%RSD	.16827	.57371	2.6089	1.3468	.95257	2.5422	.46590

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1160.	177.66	11704.	20148.	F 565480.	8665.2	61.523
Stddev	17.	2.67	40.	173.	7778.	29.9	1.361
%RSD	1.440	1.5045	.34320	.85806	1.3755	.34481	2.2123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					500000.		
Low Limit					-500000.		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34138.	12266.	601.44	7280.8	1371.0	F 15900.	286.6
Stddev	308.	86.	8.28	30.4	22.4	215.	3.7
%RSD	.90103	.70356	1.3762	.41812	1.6349	1.3539	1.275

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						15000.	
Low Limit						-500000.	

Sample Name: 240-12621-e-1-a Acquired: 7/7/2012 0:00:44 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.411	2345.4	4897.4	13.117	387.37	F 73247.	13055.
Stddev	1.453	40.0	12.8	1.320	2.20	646.	63.
%RSD	7.4859	1.7056	.26141	10.059	.56716	.88221	.48159

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	1226.7
Stddev	5.2
%RSD	.42279

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8575.7	7580.4	74565.	10072.
Stddev	68.6	39.6	211.	63.
%RSD	.79947	.52304	.28282	.62381

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.203%	104.23%	96.244%	98.321%
Range				

Sample Name: 240-12621-e-1-a@5 Acquired: 7/7/2012 0:05:30 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91.915	68872.	21.978	233.43	1315.9	.55530	47441.
Stddev	.925	1285.	1.210	.70	24.3	.04966	855.
%RSD	1.0066	1.8664	5.5049	.30059	1.8471	8.9438	1.8018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	240.8	35.164	2460.7	4064.5	123230.	1899.7	16.450
Stddev	1.1	.197	2.8	3.2	1848.	40.7	1.254
%RSD	.4693	.56045	.11446	.07848	1.5000	2.1412	7.6229

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7340.5	2706.9	128.03	1539.2	272.86	3439.0	61.31
Stddev	121.0	20.6	.73	22.6	.99	13.3	2.19
%RSD	1.6478	.76260	.57336	1.4653	.36461	.38572	3.575

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12621-e-1-a@5 Acquired: 7/7/2012 0:05:30 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS.Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.2350	470.37	1008.4	3.0505	83.160	F 17359.	2692.2
Stddev	1.5429	2.07	1.6	.2862	3.479	36.	49.1
%RSD	24.746	.43997	.15714	9.3811	4.1840	.20910	1.8252

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	252.98
Stddev	9.18
%RSD	3.6300

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9439.5	7610.2	76728.	9879.8
Stddev	10.2	11.4	237.	108.9
%RSD	.10770	.15036	.30856	1.1022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.088%	104.64%	99.036%	96.449%
Range				

Sample Name: 240-12621-e-1-a@25 Acquired: 7/7/2012 0:09:35 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.827	14310.	4.2316	47.214	271.69	.02969	9746.7	49.59	7.1269
Stddev	.217	84.	.4389	.106	1.98	.04666	68.4	.25	.0450
%RSD	1.1520	.58790	10.372	.22471	.73015	157.15	.70146	.5046	.63094

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	500.67	817.86	25957.	596.30	6.9425	1542.9	562.00	26.675	382.36
Stddev	7.38	13.50	182.	51.28	1.6526	12.1	6.42	.098	15.84
%RSD	1.4740	1.6506	.69946	8.6004	23.804	.78198	1.1415	.36575	4.1424

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55.501	698.84	13.68	1.7472	95.915	202.18	.97067	16.646	3670.0
Stddev	.485	2.70	1.47	1.1843	.565	2.31	.73452	1.443	10.5
%RSD	.87349	.38628	10.72	67.780	.58943	1.1420	75.671	8.6669	.28490

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: 240-12621-e-1-a@25 Acquired: 7/7/2012 0:09:35 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	547.48	50.673
Stddev	9.87	2.544
%RSD	1.8025	5.0206

Check ? Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9752.3	7636.4	78750.	9871.5
Stddev	12.2	3.8	536.	50.9
%RSD	.12487	.04992	.68096	.51611

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 Value 100.30% 105.00% 101.65% 96.368%
 Range

Sample Name: 240-12540-e-1-a Acquired: 7/7/2012 0:13:18 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3800)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6121	70921.	39.397	73.910	308.31	5.3998	19778.
Stddev	.2929	199.	1.009	.326	.79	.0358	66.
%RSD	6.3499	.28129	2.5606	.44076	.25693	.66358	.33386

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 3396.	33.556	445.25	112.10	153120.	15540.	129.70
Stddev	11.	.268	.86	1.41	9645.	37.	1.33
%RSD	.3292	.79779	.19297	1.2537	6.2989	.24014	1.0289

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.						
Low Limit	-500000.						

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22128.	2101.9	3.6942	5816.5	119.52	152.36	3.685
Stddev	19.	18.5	.0910	46.7	.89	.99	1.625
%RSD	.08617	.87921	2.4625	.80240	.74732	.65066	44.09

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12540-e-1-a Acquired: 7/7/2012 0:13:18 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.3437	19.241	907.28	3.0891	191.87	4561.5	2952.8
Stddev	2.2367	.128	3.81	.8775	3.43	10.2	21.0
%RSD	35.258	.66659	.41959	28.405	1.7876	.22404	.71120

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	196.36
Stddev	6.19
%RSD	3.1538

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9346.7	8278.5	83804.	10824.
Stddev	24.0	18.0	114.	36.
%RSD	.25713	.21760	.13555	.32989

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.133%	113.83%	108.17%	105.67%
Range				

Sample Name: 240-12540-e-1-a@5 Acquired: 7/7/2012 0:17:13 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.89460	15625.	9.5772	14.500	67.126	1.1531	4322.7	745.1	6.6416
Stddev	.20423	102.	.4938	.147	.208	.0285	16.7	3.4	.1047
%RSD	22.829	.64997	5.1560	1.0137	.30950	2.4732	.38604	.4547	1.5771

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.739	30.818	35829.	3593.3	34.191	4984.5	471.50	.84744	1348.4
Stddev	.424	.786	200.	28.1	.213	24.0	.60	.03548	8.4
%RSD	.43380	2.5518	.55902	.78196	.62273	.48073	.12707	4.1868	.62339

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.876	35.300	.2463	2.6838	4.2699	196.15	2.2645	43.053	926.03
Stddev	.386	.512	1.552	1.3149	.3830	.04	.5235	1.612	3.23
%RSD	1.6156	1.4496	630.2	48.995	8.9702	.02285	23.119	3.7449	.34875

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12540-e-1-a@5 Acquired: 7/7/2012 0:17:13 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	618.25	35.792
Stddev	5.50	2.875
%RSD	.89042	8.0315

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9656.4	7747.4	79045.	9937.5
Stddev	20.4	16.6	125.	31.4
%RSD	.21167	.21390	.15869	.31627

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.319%	106.53%	102.03%	97.012%
Range				

Sample Name: CCV Acquired: 7/7/2012 0:21:01 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 ;
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1017.6	25312.	487.53	5045.1	1989.1	2204.0	50923.
Stddev	3.9	65.	12.29	134.9	1.3	2.5	33.
%RSD	.38171	.25828	2.5208	2.6731	.06676	.11328	.06493

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	471.1	1965.3	1934.2	1958.5	F 28095.	52530.	5420.8
Stddev	13.2	54.4	4.5	5.1	50.	96.	17.3
%RSD	2.805	2.7677	.23341	.26261	.17836	.18239	.31852

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					25000.		
Range					10.500%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 56400.	2046.8	1936.8	53039.	1966.3	472.30	464.7
Stddev	34.	6.0	52.3	428.	52.4	12.01	12.8
%RSD	.05992	.29330	2.7026	.80722	2.6672	2.5430	2.760

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50000.						
Range	10.500%						

Sample Name: CCV Acquired: 7/7/2012 0:21:01 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493.32	5132.7	5425.0	1016.3	1983.7	2042.1	4827.0
Stddev	11.18	139.2	18.6	25.3	2.7	53.7	9.0
%RSD	2.2663	2.7114	.34275	2.4897	.13563	2.6318	.18653

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4947.0
Stddev	26.8
%RSD	.54250

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8935.4	7390.7	74243.	9477.7
Stddev	159.3	130.5	119.	24.0
%RSD	1.7830	1.7653	.16049	.25366

Sample Name: CCB Acquired: 7/7/2012 0:24:56 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23393	2.4722	2.0778	11.364	.99412	.77796	11.718
Stddev	.28666	10.481	.1923	1.106	.38003	.16537	6.145
%RSD	122.54	423.96	9.2555	9.7308	38.228	21.256	52.438

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2221	.27682	-.22337	F 8.7945	30.392	292.88	10.596
Stddev	.0803	.12890	.18898	.2442	5.178	14.31	1.431
%RSD	36.14	46.563	84.602	2.7766	17.039	4.8865	13.501

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.888	.53801	.41497	122.82	.38046	1.0519	2.247
Stddev	11.254	.05010	.13578	20.89	.08515	.4012	1.877
%RSD	27.524	9.3128	32.719	17.009	22.382	38.141	83.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/7/2012 0:24:56 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.9528	1.4604	1.2149	.39607	-.11197	.12842	-3.3770
Stddev	1.5899	.0733	.2058	.67852	2.1662	.16402	2.3097
%RSD	53.844	5.0220	16.939	171.31	1934.6	127.72	68.395

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-6.3182
Stddev	5.4244
%RSD	85.853

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9817.7	7603.3	78112.	9700.6
Stddev	28.4	27.4	110.	62.6
%RSD	.28896	.36015	.14046	.64554

Sample Name: 240-12540-e-2-a Acquired: 7/7/2012 0:28:45 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.550	63035.	51.864	59.819	882.87	6.2785	8087.4
Stddev	.043	25.	.697	.318	.89	.0277	8.5
%RSD	.29872	.03911	1.3434	.53121	.10051	.44089	.10507

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.75	99.278	3645.5	515.24	154050.	9718.3	104.42
Stddev	.18	.080	7.5	.95	329.	36.9	.38
%RSD	.7308	.08054	.20633	.18400	.21381	.37954	.36503

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14534.	2344.9	41.982	2337.7	180.05	828.29	7.483
Stddev	26.	2.2	.231	15.5	.48	.31	1.498
%RSD	.17753	.09217	.55049	.66173	.26627	.03774	20.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12540-e-2-a Acquired: 7/7/2012 0:28:45 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.4907	59.265	712.12	1.3352	274.62	F 16314.	2359.6
Stddev	1.9905	.496	.06	.3425	1.00	74.	6.2
%RSD	36.252	.83636	.00872	25.650	.36396	.45607	.26374

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	88.038
Stddev	2.432
%RSD	2.7619

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9372.6	8926.4	89902.	11608.
Stddev	27.9	27.1	485.	23.
%RSD	.29775	.30323	.53988	.19673

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.400%	122.74%	116.04%	113.32%
Range				

Sample Name: 240-12540-e-2-a@5 Acquired: 7/7/2012 0:32:50 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.2834	14459.	13.834	13.002	199.49	1.4064	1835.3	5.748	19.940
Stddev	.2412	136.	.492	.078	2.19	.0369	16.4	.060	.211
%RSD	7.3466	.93836	3.5550	.59740	1.0986	2.6222	.89396	1.052	1.0570

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	824.99	120.55	36212.	2382.9	29.756	3388.9	548.59	9.6205	592.77
Stddev	10.69	2.27	329.	19.6	.132	42.4	7.77	.1753	10.86
%RSD	1.2952	1.8846	.90725	.82398	.44434	1.2509	1.4167	1.8218	1.8327

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.059	195.72	.4022	3.4761	12.072	159.97	.45568	63.079	3392.8
Stddev	.211	.64	2.283	2.3353	.136	2.28	.87183	1.066	8.5
%RSD	.58592	.32586	567.5	67.182	1.1270	1.4278	191.32	1.6905	.25146

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: 240-12540-e-2-a@5 Acquired: 7/7/2012 0:32:50 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	533.21	9.8215
Stddev	3.92	4.7109
%RSD	.73557	47.965

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9756.4	7960.9	81807.	10253.
Stddev	24.7	18.1	394.	39.
%RSD	.25317	.22720	.48176	.37587

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.35%	109.46%	105.59%	100.09%
Range				

Sample Name: 240-12540-e-3-a@20 Acquired: 7/7/2012 0:36:34 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

NCM matrix

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.76054	1237.9	7.4858	.90036	5170.8	.02487	2607.0
Stddev	.05698	21.3	1.5404	.21315	77.0	.04468	5.5
%RSD	7.4918	1.7196	20.578	23.674	1.4898	179.65	.21238

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.837	33.037	13721.	16.959	2618.2	3974.2	8.6350
Stddev	.146	.059	18.	.563	6.0	48.8	1.3476
%RSD	3.021	.17888	.13231	3.3173	.22827	1.2277	15.606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3282.8	78.679	1.0935	132.09	13.568	2640.8	1.275
Stddev	5.8	.185	.0296	3.94	.038	4.8	.833
%RSD	.17719	.23456	2.7050	2.9854	.27684	.18167	65.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12540-e-3-a@20 Acquired: 7/7/2012 0:36:34 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3246	1.1188	318.95	3.0498	26.106	F 34760.	143.11
Stddev	1.9343	.5411	.54	.5634	.273	24.	2.40
%RSD	146.03	48.361	.16917	18.473	1.0456	.06781	1.6788

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	62.956
Stddev	7.580
%RSD	12.041

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9810.5	7719.3	79301.	9867.7
Stddev	18.8	15.4	181.	33.4
%RSD	.19185	.19906	.22872	.33878

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.90%	106.14%	102.36%	96.331%
Range				

Sample Name: 240-12540-e-3-a@100 Acquired: 7/7/2012 0:40:46 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09580	248.84	2.3420	-2.5448	1038.0	-.03895	498.24	.9285
Stddev	.22456	14.58	1.1107	.2777	1.5	.08023	.78	.0190
%RSD	234.39	5.8585	47.424	10.914	.14388	205.99	.15668	2.052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.4239	2777.9	9.7832	530.76	991.15	7.7383	674.66	15.871
Stddev	.1803	2.9	.8457	3.23	47.13	1.9257	19.25	.046
%RSD	2.8073	.10563	8.6441	.60781	4.7554	24.885	2.8527	.29190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24214	79.634	2.7650	508.39	.9914	-.32636	.65001	63.276
Stddev	.16575	22.729	.1936	13.64	1.461	.12511	.08437	.321
%RSD	68.449	28.541	7.0009	2.6835	147.3	38.334	12.980	.50657

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12540-e-3-a@100 Acquired: 7/7/2012 0:40:46 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.63496	7.4268	7525.7	30.412	10.768
Stddev	.17726	2.0778	201.6	2.374	4.654
%RSD	27.917	27.977	2.6788	7.8053	43.218

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9885.7	7736.9	78717.	9695.1
Stddev	128.7	99.1	66.	122.9
%RSD	1.3022	1.2809	.08338	1.2680

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.68%	106.39%	101.60%	94.646%
Range				

Sample Name: 240-12540-e-4-a Acquired: 7/7/2012 0:44:32 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-86345	60607.	28.187	5.9565	248.90	2.4934	4599.0	.3711
Stddev	.73532	2069.	.551	.3911	8.77	.1246	157.9	.0375
%RSD	85.160	3.4140	1.9549	6.5667	3.5235	4.9985	3.4329	10.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.936	84.747	49.166	85577.	3104.5	50.316	6595.7	353.07
Stddev	.150	.293	.162	2862.	116.9	2.404	214.4	1.30
%RSD	.55653	.34631	.33025	3.3442	3.7659	4.7782	3.2505	.36757

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2376	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.4381	391.22	46.585	48.140	1.102	3.3453	11.360	1019.8
Stddev	.0718	15.30	.219	.590	1.453	.7263	.219	3.3
%RSD	2.0879	3.9102	.46928	1.2263	131.9	21.710	1.9322	.32430

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12540-e-4-a Acquired: 7/7/2012 0:44:32 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.2519	135.99	170.62	1979.1	25.768
Stddev	.9602	4.62	.29	82.0	4.340
%RSD	76.700	3.3992	.17191	4.1417	16.842

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9525.0	8006.5	80566.	10348.
Stddev	9.9	3.6	150.	248.
%RSD	.10403	.04545	.18588	2.3954

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.967%	110.09%	103.99%	101.02%
Range				

Sample Name: 240-12596-e-2-a Acquired: 7/7/2012 0:48:16 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2328	70063.	34.583	43.168	491.91	5.9821	60900.
Stddev	.1042	173.	.785	.749	1.03	.0270	145.
%RSD	4.6663	.24641	2.2705	1.7343	.20945	.45185	.23876

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.706	45.498	164.56	138.20	123660.	7910.5	91.644
Stddev	.057	1.026	.78	.16	901.	10.1	.612
%RSD	3.320	2.2545	.47265	.11920	.72879	.12713	.66749

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30750.	2441.0	5.6214	1746.0	89.595	178.87	3.263
Stddev	108.	17.6	.1361	16.4	.611	2.19	.035
%RSD	.35269	.72016	2.4219	.93686	.68147	1.2225	1.058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-e-2-a Acquired: 7/7/2012 0:48:16 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.9549	29.017	1102.1	1.2978	273.19	479.73	5183.0
Stddev	2.6612	.330	2.4	.6621	1.85	5.72	15.1
%RSD	44.689	1.1378	.22221	51.015	.67763	1.1919	.29198

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	131.34
Stddev	3.29
%RSD	2.5082

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9238.2	8444.2	84526.	10840.
Stddev	70.8	56.0	219.	31.
%RSD	.76630	.66281	.25908	.28779

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.017%	116.11%	109.10%	105.82%
Range				

Sample Name: 240-12596-e-3-a Acquired: 7/7/2012 0:52:11 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0248	50391.	26.821	33.922	490.95	4.2039	25813.
Stddev	.8141	264.	.369	.347	2.52	.1004	122.
%RSD	20.227	.52467	1.3770	1.0225	.51312	2.3873	.47197

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.67	32.190	285.36	350.67	112990.	5922.1	63.184
Stddev	.09	.109	2.18	1.92	625.	18.7	1.433
%RSD	.5394	.33845	.76352	.54767	.55353	.31558	2.2682

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12660.	1499.3	13.674	1681.3	92.456	565.51	8.104
Stddev	106.	14.3	.094	16.4	.387	.96	.510
%RSD	.83886	.95517	.68992	.97780	.41819	.16998	6.294

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-e-3-a Acquired: 7/7/2012 0:52:11 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.8617	36.028	940.71	1.0877	238.20	1133.2	3205.1
Stddev	1.5373	.730	7.32	.1632	1.06	1.4	31.7
%RSD	31.621	2.0264	.77847	15.002	.44325	.12740	.99006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	110.21
Stddev	3.26
%RSD	2.9567

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9375.7	8182.8	81899.	10292.
Stddev	5.4	16.4	457.	69.
%RSD	.05732	.20098	.55776	.67415

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.431%	112.52%	105.71%	100.47%
Range				

Sample Name: 240-12596-e-4-a Acquired: 7/7/2012 0:56:04 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1075	120300.	47.203	21.878	662.25	4.6075	3333.5
Stddev	.0797	214.	1.115	.149	1.68	.0219	13.3
%RSD	7.1946	.17760	2.3610	.68090	.25314	.47507	.39948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.46	40.712	1369.4	435.80	142800.	8702.8	107.03
Stddev	.18	.099	12.9	3.80	1467.	.9	1.69
%RSD	.5697	.24401	.94513	.87140	1.0274	.01031	1.5769

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15269.	757.76	8.6871	1070.3	97.045	8769.0	9.772
Stddev	24.	5.59	.2187	7.3	1.941	14.4	1.750
%RSD	.15973	.73760	2.5174	.68076	1.9998	.16456	17.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-e-4-a Acquired: 7/7/2012 0:56:04 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.3142	71.426	1759.6	-54248	235.37	5776.5	2269.3
Stddev	.7297	.580	13.6	.73675	1.80	5.1	22.4
%RSD	16.915	.81252	.77188	135.81	.76356	.08841	.98585

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	50.593
Stddev	2.815
%RSD	5.5633

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9212.9	8103.0	80442.	10408.
Stddev	24.2	31.9	813.	40.
%RSD	.26309	.39376	1.0101	.38069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.757%	111.42%	103.83%	101.60%
Range				

Sample Name: 240-12596-j-5-b Acquired: 7/7/2012 0:59:51 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.634	36614.	26.999	10.278	188.58	6.4605	8301.5
Stddev	.254	1462.	.707	.400	7.48	.3630	330.1
%RSD	1.6256	3.9933	2.6178	3.8944	3.9659	5.6195	3.9766

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.044	23.937	494.27	317.81	190490.	3882.1	43.015
Stddev	.126	.129	2.48	2.14	5796.	186.4	1.568
%RSD	3.124	.53882	.50132	.67200	3.0425	4.8006	3.6454

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5226.4	451.09	5.6574	370.06	69.376	360.98	8.369
Stddev	194.2	2.19	.1682	18.21	.605	1.27	.857
%RSD	3.7165	.48561	2.9729	4.9212	.87253	.35197	10.24

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-j-5-b Acquired: 7/7/2012 0:59:51 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.4829	33.063	791.25	-27006	236.81	2375.7	1725.8
Stddev	1.3279	.171	3.86	.83901	9.26	8.7	66.8
%RSD	29.621	.51759	.48748	310.67	3.9098	.36806	3.8711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	31.196
Stddev	2.618
%RSD	8.3907

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9542.2	8355.2	83787.	10333.
Stddev	19.8	36.2	1082.	253.
%RSD	.20746	.43309	1.2913	2.4460

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.144%	114.89%	108.15%	100.87%
Range				

Sample Name: 240-12596-e-6-a Acquired: 7/7/2012 1:03:40 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.032	39712.	43.399	23.236	257.60	3.1342	61732.
Stddev	.271	58.	.341	.482	.52	.0166	153.
%RSD	2.0802	.14717	.78495	2.0749	.20007	.53057	.24708

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.61	51.868	186.49	172.39	112870.	4486.4	39.608
Stddev	.17	.704	1.08	.98	766.	15.0	1.260
%RSD	1.424	1.3580	.58176	.57139	.67900	.33460	3.1818

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47388.	1194.8	4.0451	392.26	275.06	176.61	2.979
Stddev	118.	4.9	.1814	9.16	3.36	2.10	3.095
%RSD	.24949	.40857	4.4848	2.3360	1.2211	1.1878	103.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-e-6-a Acquired: 7/7/2012 1:03:40 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6061	21.311	789.66	1.1019	213.60	426.14	2609.7
Stddev	1.6844	.430	3.58	.3077	1.64	4.49	1.4
%RSD	36.569	2.0165	.45358	27.926	.76768	1.0529	.05197

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	73.270
Stddev	3.236
%RSD	4.4169

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9350.0	8122.9	82519.	10487.
Stddev	64.4	53.7	195.	57.
%RSD	.68915	.66157	.23667	.54696

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.167%	111.69%	106.51%	102.37%
Range				

Sample Name: CCV Acquired: 7/7/2012 1:07:25 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1013.7	25282.	495.30	5131.3	1987.9	2205.6	50923.
Stddev	8.0	210.	1.27	6.6	13.0	13.2	331.
%RSD	.79075	.82883	.25549	.12873	.65204	.59836	.64943

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	479.6	2000.7	1927.8	1952.1	F 28063.	52492.	5423.7
Stddev	.6	1.4	14.3	15.1	198.	400.	39.3
%RSD	.1316	.07122	.74432	.77567	.70719	.76277	.72537

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					25000.		
Range					10.500%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 56430.	2045.0	1969.0	53165.	2001.4	480.98	475.5
Stddev	388.	20.8	3.3	641.	3.0	.80	2.2
%RSD	.68727	1.0158	.16718	1.2054	.14862	.16634	.4581

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50000.						
Range	10.500%						

Sample Name: CCV Acquired: 7/7/2012 1:07:25 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	503.52	5218.0	5443.7	1033.4	1985.3	2073.9	4830.5
Stddev	.42	2.4	13.1	1.2	12.0	1.9	43.8
%RSD	.08359	.04560	.24032	.11423	.60683	.09125	.90577

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4955.1
Stddev	27.8
%RSD	.56029

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9025.0	7473.1	76050.	9693.0
Stddev	17.0	21.7	395.	47.7
%RSD	.18872	.29034	.51984	.49219

Sample Name: CCB Acquired: 7/7/2012 1:11:21 Type: QC

Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000

User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

See note in worksheet tab regarding 6010C CFI which followed this COP (analyzed at 01-15)

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01118	19.338	1.2552	9.6366	.23583	.35919	.13822
Stddev	.78730	14.987	.9736	.9874	.07599	.06504	2.4905
%RSD	7042.8	77.499	77.566	10.246	32.220	18.108	1801.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0583	.22695	-.87494	F 6.8073	6.6130	285.24	13.954
Stddev	.0427	.08570	.15515	.2876	1.4830	25.57	3.206
%RSD	73.32	37.762	17.733	4.2252	22.425	8.9647	22.974

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.7808	.07070	.17537	92.123	-.18415	.52801	-.0065
Stddev	15.852	.06823	.05721	13.441	.41814	.11826	2.491
%RSD	233.77	96.514	32.621	14.590	227.07	22.398	38080.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/7/2012 1:11:21 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:


Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6551	.86391	.37732	1.0238	1.0798	-.72745	.00913
Stddev	1.2418	.28260	.17333	.4440	2.5426	.16149	6.7339
%RSD	75.030	32.711	45.937	43.370	235.47	22.199	73761.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-.74395
Stddev	4.6885
%RSD	630.22

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9997.7	7759.7	79485.	9850.7
Stddev	29.0	23.9	273.	22.1
%RSD	.29038	.30789	.34345	.22482

Sample Name: 240-12803-a-3-b Acquired: 7/7/2012 1:18:53 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment: 

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.00727	67.943	8.7949	204.27	662.69	-.15671	205080.
Stddev	.25694	46.020	.7977	.57	1.33	.06564	2590.
%RSD	3535.9	67.734	9.0704	.28127	.20116	41.889	1.2627

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2199	2.0660	.16667	28.994	10560.	27267.	56.606
Stddev	.0962	.0531	.01934	.391	76.	143.	2.776
%RSD	43.77	2.5685	11.604	1.3476	.72317	.52470	4.9035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69991.	1924.9	2.8758	113340.	3.4759	-.33985	.7339
Stddev	513.	11.8	.2011	559.	.2739	.71998	2.353
%RSD	.73316	.61518	6.9935	.49346	7.8811	211.85	320.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-a-3-b Acquired: 7/7/2012 1:18:53 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0770	1.1838	2.4927	3.8476	2.1084	14.942	44520.
Stddev	.5239	.2223	.1580	.7614	.7556	.091	99.
%RSD	17.025	18.778	6.3398	19.790	35.838	.61014	.22285

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2443.2
Stddev	16.1
%RSD	.65716

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8889.2	7323.4	73895.	9610.5
Stddev	5.0	5.5	138.	24.4
%RSD	.05658	.07460	.18685	.25421

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.428%	100.70%	95.379%	93.820%
Range				

Sample Name: SD 240-12803-a-3-b@5 Acquired: 7/7/2012 1:22:55 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

RL

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40375	-2.6126	3.7284	38.281	132.00	-.03326	42342.	.0519
Stddev	.54431	35.709	.9275	.336	.58	.01838	42.	.0908
%RSD	134.81	1366.8	24.877	.87725	.43634	55.260	.09882	174.9

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46259	-.39388	12.337	2166.9	5726.8	20.547	14510.	394.65
Stddev	.03709	.20916	.690	7.8	18.0	2.057	88.	6.44
%RSD	8.0175	53.104	5.5928	.36071	.31508	10.011	.60820	1.6311

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.59055	23159.	.56619	-.71561	.4673	.28964	.57901	.43269
Stddev	.08744	55.	.07905	.22282	1.785	.71182	.57328	.08642
%RSD	14.807	.23699	13.961	31.137	382.0	245.77	99.011	19.973

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

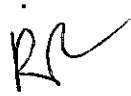
Sample Name: SD 240-12803-a-3-b@5 Acquired: 7/7/2012 1:22:55 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.0965	.21066	4.1350	8880.1	497.05
Stddev	.3655	.91605	.0094	8.1	2.49
%RSD	33.332	434.85	.22756	.09161	.50061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9659.1	7615.2	78034.	9717.8
Stddev	17.4	10.1	880.	35.2
%RSD	.18062	.13294	1.1277	.36231

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.346%	104.71%	100.72%	94.867%
Range				

Sample Name: 240-12803-a-3-c ms Acquired: 7/7/2012 1:26:38 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: 

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.850	2105.9	2001.4	1276.9	2776.5	54.516	254010.
Stddev	.324	24.1	3.8	.7	6.5	.032	1354.
%RSD	.61350	1.1448	.19114	.05686	.23458	.05818	.53316

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.81	496.14	191.77	274.00	11602.	80564.	1164.7
Stddev	.36	.67	.66	.83	35.	178.	2.0
%RSD	.7487	.13420	.34223	.30407	.30170	.22085	.17386

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125780.	2419.3	975.30	164830.	494.23	461.74	498.1
Stddev	140.	26.0	.63	3067.	.81	2.07	1.7
%RSD	.11091	1.0751	.06419	1.8606	.16320	.44756	.3323

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-a-3-c ms Acquired: 7/7/2012 1:26:38 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2031.9	2153.3	1125.2	2027.5	499.17	530.88	45031.
Stddev	1.9	1.3	1.7	2.3	2.06	1.02	122.
%RSD	.09390	.05933	.15174	.11441	.41224	.19277	.27048


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3410.4
Stddev	17.6
%RSD	.51605

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8496.7	7159.2	72397.	9525.0
Stddev	15.0	11.8	23.	42.8
%RSD	.17630	.16481	.03213	.44900

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.391%	98.442%	93.445%	92.985%
Range				

Sample Name: 240-12803-a-3-d msd Acquired: 7/7/2012 1:30:42 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: 

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.704	2085.8	1959.8	1247.5	2763.4	53.924	248710.
Stddev	.740	15.3	46.2	28.1	4.8	.290	691.
%RSD	1.4039	.73383	2.3585	2.2522	.17219	.53860	.27764

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.71	485.39	190.20	269.51	11493.	79987.	1153.9
Stddev	1.08	11.61	.48	1.35	62.	259.	6.2
%RSD	2.318	2.3919	.24992	.50013	.53522	.32401	.54097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124460.	2386.6	954.26	162650.	484.63	452.13	487.4
Stddev	569.	6.2	21.16	2473.	11.60	10.15	11.9
%RSD	.45712	.25924	2.2173	1.5203	2.3931	2.2445	2.433

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-a-3-d msd Acquired: 7/7/2012 1:30:42 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1991.8	2105.3	1112.3	1982.8	495.84	518.99	44914.
Stddev	48.6	45.7	1.2	42.4	2.99	11.43	106.
%RSD	2.4391	2.1688	.10586	2.1368	.60356	2.2032	.23605

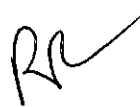
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3378.6
Stddev	15.1
%RSD	.44801

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8540.1	7189.7	72458.	9495.8
Stddev	99.3	81.2	118.	37.8
%RSD	1.1628	1.1294	.16314	.39820

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.837%	98.861%	93.524%	92.700%
Range				

Sample Name: 240-12803-a-4-b Acquired: 7/7/2012 1:34:45 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: 

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32404	586.11	17.342	201.47	231.43	-.13829	181700.
Stddev	.15149	19.09	2.463	.73	.52	.03984	846.
%RSD	46.751	3.2565	14.200	.36479	.22333	28.810	.46551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3361	-.00712	.84010	8.4156	9926.0	22627.	52.595
Stddev	.1235	.19072	.41700	.8107	30.7	91.	1.660
%RSD	36.74	2677.4	49.637	9.6334	.30967	.40231	3.1562

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69404.	1430.8	.86052	112800.	3.3081	.44793	.8721
Stddev	203.	2.3	.09281	412.	.0818	1.4627	2.302
%RSD	.29230	.16205	10.786	.36556	2.4715	326.55	264.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-a-4-b Acquired: 7/7/2012 1:34:45 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5203	1.8894	18.647	3.6823	2.9086	2.8494	49866.
Stddev	1.1147	.2768	.187	.4200	2.0449	.1377	122.
%RSD	44.228	14.647	1.0002	11.407	70.304	4.8333	.24464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2096.1
Stddev	7.2
%RSD	.34117

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8837.1	7251.0	73468.	9464.6
Stddev	48.4	28.5	151.	24.0
%RSD	.54742	.39367	.20497	.25409

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.891%	99.704%	94.827%	92.395%
Range				

Sample Name: 240-12803-a-5-b Acquired: 7/7/2012 1:38:38 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.67923	1684.3	18.256	281.72	124.41	-.13732	199830.
Stddev	.33281	16.2	.881	3.97	.07	.03449	1172.
%RSD	48.998	.96375	4.8280	1.4104	.05978	25.114	.58632

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4031	.52078	1.8830	10.686	1649.5	38806.	114.07
Stddev	.1217	.32007	.4015	.464	2.8	173.	2.55
%RSD	30.18	61.460	21.324	4.3457	.17172	.44626	2.2369

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62137.	149.28	3.1326	104890.	3.6785	.32370	-.3377
Stddev	112.	.17	.0372	529.	.1067	.53135	.7113
%RSD	.18005	.11600	1.1884	.50406	2.9003	164.14	210.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-a-5-b Acquired: 7/7/2012 1:38:38 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0109	1.4116	55.181	2.0623	19.013	7.1939	30820.
Stddev	2.1221	.8170	1.387	.3164	1.274	.0319	145.
%RSD	52.910	57.879	2.5142	15.341	6.6992	.44402	.47138

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1469.9
Stddev	2.9
%RSD	.19791

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8863.5	7272.8	72831.	9322.6
Stddev	80.0	56.9	332.	62.5
%RSD	.90293	.78176	.45537	.66989

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.163%	100.00%	94.006%	91.009%
Range				

Sample Name: 240-12907-e-1-a Acquired: 7/7/2012 1:42:31 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0399	3003.4	14.432	5593.9	13181.	-3.9550	^ *****
Stddev	.6432	17.8	2.270	15.2	48.	.0562	----
%RSD	61.847	.59388	15.727	.27127	.36523	1.4210	----

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.018	4.1893	3.6791	k 143.18	290.22	367300.	k 20900.
Stddev	.122	.2489	.2984	.37	6.27	2168.	283.
%RSD	12.01	5.9419	8.1108	.25526	2.1594	.59031	1.3559

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	384800.	438.78	49.492	^ *****	20.604	k -14.992	-4.258
Stddev	1642.	.85	.295	----	.562	.943	.902
%RSD	.42675	.19432	.59597	----	2.7261	6.2904	21.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12907-e-1-a Acquired: 7/7/2012 1:42:31 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6036	8.1534	-14.471	8.9286	-.38416	5.6936	328.86
Stddev	.9846	.2082	.237	.8058	2.0405	.1726	5.59
%RSD	61.402	2.5535	1.6354	9.0251	531.16	3.0315	1.6990

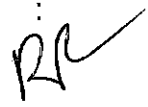
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	F 553070.
Stddev	4515.
%RSD	.81638

Check ?	Chk Fail
High Limit	50000.
Low Limit	-500000.

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	W 4866.6	W 4542.9	W 46873.	7807.0
Stddev	9.1	8.9	177.	29.7
%RSD	.18614	.19512	.37664	.38075

Check ?	Chk Warn	Chk Warn	Chk Warn	Chk Pass
Value	50.054%	62.467%	60.501%	76.214%
Range	-30.500%	-30.500%	-30.500%	

Sample Name: 240-12907-e-1-a@20 Acquired: 7/7/2012 1:46:37 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: 

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-88720	150.02	4.4712	262.41	649.46	-19563	269890.
Stddev	.22759	19.16	.3798	.20	2.35	.05009	2982.
%RSD	25.652	12.775	8.4950	.07672	.36154	25.606	1.1051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0060	.42762	.02147	8.3354	15.650	19370.	853.54
Stddev	.0619	.22468	.12150	.4299	1.394	134.	4.58
%RSD	1031.	52.543	565.95	5.1576	8.9045	.69016	.53607

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22734.	23.909	2.4876	F 557700.	3.2041	-1.0318	1.027
Stddev	138.	.164	.0303	33026.	1.0589	1.1401	1.217
%RSD	.60581	.68770	1.2190	5.9218	33.049	110.49	118.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				500000.			
Low Limit				-500000.			

Sample Name: 240-12907-e-1-a@20 Acquired: 7/7/2012 1:46:37 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.51007	1.5002	-1.3223	2.3284	-.14519	2.1006	23.526
Stddev	1.2422	.4406	.1160	.6325	1.4761	.5037	3.719
%RSD	243.52	29.373	8.7753	27.166	1016.7	23.980	15.807

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	30057.
Stddev	121.
%RSD	.40387

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7919.1	6703.2	66667.	8996.9
Stddev	21.3	16.9	124.	68.2
%RSD	.26951	.25187	.18583	.75756

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.450%	92.171%	86.050%	87.830%
Range				

Sample Name: 240-12814-f-1-b Acquired: 7/7/2012 1:50:39 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1046	20.681	2.5046	43.587	77.642	-0.07695	39317.	-.0043
Stddev	.2648	27.655	.2877	.450	.913	.02416	461.	.0852
%RSD	23.973	133.72	11.486	1.0318	1.1758	31.398	1.1721	1998.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05536	-.19361	9.3296	43.486	7878.0	36.131	9997.7	2.2134
Stddev	.24360	.04107	1.1345	1.219	98.6	.599	136.3	.0242
%RSD	440.04	21.214	12.160	2.8031	1.2521	1.6565	1.3636	1.0926

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.94083	17247.	.46337	.60399	2.301	.90668	.85568	-.01887
Stddev	.11605	19.	.18429	.77154	.884	.46165	.15132	.07680
%RSD	12.335	.11007	39.772	127.74	38.42	50.916	17.684	407.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12814-f-1-b Acquired: 7/7/2012 1:50:39 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.69301	1.1991	.96840	1527.5	200.27
Stddev	1.0754	.7285	.07755	27.8	1.98
%RSD	155.18	60.756	8.0078	1.8209	.99083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9515.3	7503.7	75755.	9535.5
Stddev	21.2	15.7	343.	70.7
%RSD	.22293	.20975	.45261	.74173

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.867%	103.18%	97.780%	93.087%
Range				

Sample Name: CCV Acquired: 7/7/2012 1:54:26 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1017.0	25168.	489.58	5087.0	1988.8	F 2226.9	50975.
Stddev	3.2	28.	10.94	107.4	1.5	1.8	34.
%RSD	.31295	.11034	2.2338	2.1115	.07520	.07966	.06697

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2000.0	
Range						10.500%	

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	469.6	1986.5	1938.2	1956.4	F 28200.	53401.	5513.0
Stddev	8.8	43.9	5.5	4.5	83.	44.	9.3
%RSD	1.879	2.2093	.28619	.23166	.29536	.08148	.16843

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					25000.		
Range					10.500%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 57338.	2064.7	1941.4	50754.	1993.5	475.27	460.3
Stddev	154.	6.9	37.0	337.	44.5	9.51	9.1
%RSD	.26874	.33321	1.9043	.66327	2.2308	2.0000	1.967

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50000.						
Range	10.500%						

Sample Name: CCV Acquired: 7/7/2012 1:54:26 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498.44	5224.2	5487.7	1030.6	1989.4	2087.2	4804.4
Stddev	11.96	123.7	11.3	21.4	4.2	49.4	13.6
%RSD	2.3986	2.3680	.20614	2.0729	.20873	2.3668	.28361

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4929.5
Stddev	10.1
%RSD	.20497

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8941.0	7457.6	72896.	9215.8
Stddev	63.9	73.8	154.	28.9
%RSD	.71472	.98935	.21085	.31377

Sample Name: CCB Acquired: 7/7/2012 1:58:20 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11412	5.0852	1.1526	11.416	.35622	.25475	4.1996
Stddev	.49565	13.474	.5894	.992	.19539	.16025	3.7847
%RSD	434.34	264.97	51.134	8.6854	54.852	62.905	90.122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0057	.13925	-.69165	F 8.2688	4.6012	973.25	23.914
Stddev	.0344	.07304	.22924	.9143	.7491	26.56	2.717
%RSD	600.3	52.452	33.145	11.057	16.281	2.7287	11.362

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.390	.05527	.10172	F 2954.7	-.21458	.52677	1.130
Stddev	12.413	.02393	.19934	37.4	.12944	.73526	.454
%RSD	38.322	43.291	195.96	1.2661	60.324	139.58	40.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				1000.0			
Low Limit				-1000.0			

Sample Name: CCB Acquired: 7/7/2012 1:58:20 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4795	.91323	.26061	.14359	1.4125	-.77686	5.5604
Stddev	1.1413	.23376	.26934	1.3473	2.4014	.03780	5.5702
%RSD	77.139	25.597	103.35	938.32	170.01	4.8654	100.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-11.192
Stddev	1.232
%RSD	11.003

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9950.3	7769.6	79364.	9650.6
Stddev	47.4	38.1	675.	11.4
%RSD	.47663	.49070	.85070	.11855

Sample Name: 240-12816-f-1-b Acquired: 7/7/2012 2:02:09 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65171	22.012	2.7618	113.83	107.25	.05541	14440.
Stddev	.07064	22.822	.9477	.37	.18	.06617	59.
%RSD	10.839	103.68	34.316	.32265	.17051	119.42	.40581

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1110	-.03909	-.37136	10.205	15.878	1821.0	30.646
Stddev	.2225	.16256	.29130	.678	2.604	58.5	1.710
%RSD	200.4	415.83	78.442	6.6427	16.397	3.2101	5.5806

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4685.7	.72674	1.2388	109470.	1.5696	.64050	1.283
Stddev	21.7	.04184	.1261	632.	.0097	.11841	1.370
%RSD	.46349	5.7566	10.177	.57727	.61472	18.487	106.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12816-f-1-b Acquired: 7/7/2012 2:02:09 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8043	.97555	.26516	1.5336	.21284	5.0212	3240.6
Stddev	.7918	.18163	.27553	.3455	.58230	.1064	10.4
%RSD	28.237	18.618	103.91	22.532	273.58	2.1182	.32155

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	401.51
Stddev	4.89
%RSD	1.2191

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9593.0	7602.3	76358.	9755.6
Stddev	6.7	3.6	237.	19.1
%RSD	.06940	.04783	.30978	.19588

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.666%	104.53%	98.558%	95.236%
Range				

Sample Name: 240-12819-f-1-b Acquired: 7/7/2012 2:05:54 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-63709	-88490	3.5880	51.410	71.345	-06626	56994.	-0765
Stddev	.14556	15.560	1.0912	.090	.267	.06244	167.	.0126
%RSD	22.848	1758.4	30.411	.17592	.37441	94.231	.29224	16.44

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14781	-.34443	9.4737	5.1499	4295.1	17.447	14502.	3.5048
Stddev	.16808	.06961	.4660	1.4251	44.9	1.609	71.	.0452
%RSD	113.71	20.210	4.9191	27.672	1.0462	9.2218	.49180	1.2897

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.61642	29296.	.47072	-.50961	2.698	.36874	.44767	-.01586
Stddev	.07356	138.	.33090	.35363	1.484	2.1673	.29445	.02992
%RSD	11.933	.46988	70.296	69.393	54.99	587.77	65.772	188.61

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12819-f-1-b Acquired: 7/7/2012 2:05:54 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.5341	-.01233	2.4767	2700.5	246.05
Stddev	.2866	2.6279	.0193	16.0	3.18
%RSD	18.681	21310.	.78098	.59176	1.2938

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9668.7	7683.6	77721.	9793.1
Stddev	20.0	17.3	264.	30.1
%RSD	.20648	.22472	.33956	.30690

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.445%	105.65%	100.32%	95.602%
Range				

Sample Name: 240-12820-f-1-b Acquired: 7/7/2012 2:09:39 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-28741	45.867	6.7795	37.933	71.695	-09367	19550.	-0296
Stddev	.05321	11.348	1.1144	.364	.278	.04834	33.	.0425
%RSD	18.515	24.742	16.437	.96092	.38810	51.609	.16782	143.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.68929	-.32590	10.860	404.47	27194.	15.305	8928.8	17.577
Stddev	.12562	.26967	.394	3.34	91.	1.499	16.9	.103
%RSD	18.225	82.747	3.6271	.82501	.33644	9.7947	.18940	.58380

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7140	7694.4	1.9561	1.5138	.6818	1.3631	.51340	3.2353
Stddev	.0718	17.9	.0950	1.0308	1.567	2.9335	.04233	.0883
%RSD	1.5240	.23210	4.8578	68.094	229.8	215.21	8.2451	2.7304

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12820-f-1-b Acquired: 7/7/2012 2:09:39 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.8450	1.7580	1.8840	2030.1	78.993
Stddev	.5926	3.1728	.0442	6.5	3.980
%RSD	32.117	180.47	2.3464	.31832	5.0384

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9895.8	7790.0	78675.	9819.8
Stddev	39.9	38.8	47.	27.8
%RSD	.40273	.49801	.05961	.28270

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.78%	107.12%	101.55%	95.863%
Range				

Sample Name: 240-12821-f-1-b Acquired: 7/7/2012 2:13:22 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-23649	-12.957	1.2087	36.824	21.837	-15714	21501.	.0398
Stddev	.40265	12.008	1.3253	.558	.356	.04292	10.	.0377
%RSD	170.26	92.678	109.65	1.5163	1.6325	27.315	.04648	94.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05820	-.17446	13.113	318.47	3906.5	14.349	7252.0	54.966
Stddev	.19393	.11871	.481	2.35	60.9	.984	15.7	.090
%RSD	333.19	68.042	3.6664	.73695	1.5588	6.8596	.21671	.16388

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24460	6602.6	1.0949	.48989	3.041	2.1393	.19756	-.04192
Stddev	.11507	13.0	.1672	.35417	1.252	1.2021	.23472	.13164
%RSD	47.042	.19714	15.271	72.297	41.16	56.189	118.81	314.03

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12821-f-1-b Acquired: 7/7/2012 2:13:22 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4540	1.1260	324.72	2378.8	64.821
Stddev	.1059	.9996	4.75	4.3	2.017
%RSD	7.2850	88.771	1.4622	.18163	3.1111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9967.8	7855.8	79007.	9829.6
Stddev	87.8	68.6	134.	17.9
%RSD	.88084	.87359	.16953	.18204

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.52%	108.02%	101.98%	95.959%
Range				

Sample Name: 240-12823-f-1-b Acquired: 7/7/2012 2:17:06 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.10009	14.849	5.2024	56.042	41.992	-0.08783	53465.	.0393
Stddev	.29219	7.450	.9646	.586	.268	.06190	31.	.1360
%RSD	291.92	50.170	18.541	1.0449	.63890	70.482	.05755	345.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22944	-.07340	11.153	108.23	9367.8	11.897	6558.6	47.566
Stddev	.18915	.18704	.657	.85	38.0	1.563	33.9	1.036
%RSD	82.437	254.83	5.8902	.78422	.40570	13.139	.51750	2.1781

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.82484	9978.6	1.1669	1.1331	.9174	1.0386	.74450	.25827
Stddev	.18500	145.0	.1670	1.1277	.7518	1.0921	.12366	.10148
%RSD	22.428	1.4531	14.309	99.529	81.95	105.15	16.609	39.290

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12823-f-1-b Acquired: 7/7/2012 2:17:06 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.2884	2.2323	14.575	4579.5	219.10
Stddev	.9032	3.0812	.078	13.9	4.45
%RSD	39.467	138.03	.53510	.30444	2.0311

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9825.2	7747.3	78851.	9727.2
Stddev	36.6	21.3	934.	81.4
%RSD	.37219	.27469	1.1846	.83673

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.05%	106.53%	101.78%	94.959%
Range				

Sample Name: 240-12825-f-1-b Acquired: 7/7/2012 2:20:51 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-30497	-13.621	2.3062	61.206	71.484	-13384	56768.	.0271
Stddev	.61736	27.087	.5710	.761	1.450	.07119	926.	.0897
%RSD	202.43	198.86	24.758	1.2431	2.0279	53.194	1.6304	330.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25195	-38468	11.389	3.6979	5570.4	14.003	19427.	4.5151
Stddev	.10528	.21246	.279	.5527	167.2	3.476	316.	.0361
%RSD	41.787	55.231	2.4471	14.946	3.0018	24.824	1.6253	.79919

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23925	15905.	1.0605	-.27150	1.445	1.5025	.57666	-.05349
Stddev	.07022	238.	.4768	.21737	1.757	1.0476	.29517	.11205
%RSD	29.349	1.4971	44.953	80.062	121.6	69.725	51.185	209.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12825-f-1-b Acquired: 7/7/2012 2:20:51 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3636	-.51437	37.685	4500.5	440.90
Stddev	.5392	1.1775	.353	74.4	6.35
%RSD	39.540	228.93	.93586	1.6529	1.4410

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9717.2	7747.7	78072.	9765.4
Stddev	64.5	60.2	128.	64.5
%RSD	.66385	.77710	.16440	.66065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.944%	106.53%	100.77%	95.332%
Range				

Sample Name: 240-12826-f-1-b Acquired: 7/7/2012 2:24:36 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.1649	-9.5724	2.1985	6.6584	80.156	-.09052	35912.	-.1138
Stddev	.15155	17.284	.7418	.2821	.197	.03207	83.	.0690
%RSD	36.386	180.56	33.744	4.2360	.24587	35.428	.22996	60.62

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07692	-.37894	9.3994	246.38	2105.6	12.763	10787.	10.072
Stddev	.15211	.26207	.1812	2.09	26.5	1.726	11.	.003
%RSD	197.75	69.158	1.9277	.84973	1.2609	13.528	.10320	.02511

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14117	6198.2	.54780	.61593	1.228	.76005	.72885	-.10858
Stddev	.12145	30.2	.15690	.88555	.101	.88449	.16740	.10926
%RSD	86.036	.48707	28.642	143.78	8.228	116.37	22.967	100.62

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12826-f-1-b Acquired: 7/7/2012 2:24:36 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.36427	2.9675	1.6282	5215.9	136.17
Stddev	.65809	2.3903	.0852	28.7	2.62
%RSD	180.66	80.549	5.2353	.55046	1.9251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9947.6	7857.7	79214.	9850.5
Stddev	47.6	27.1	204.	6.2
%RSD	.47829	.34470	.25804	.06278

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.31%	108.05%	102.24%	96.163%
Range				

Sample Name: 240-12827-f-1-b Acquired: 7/7/2012 2:28:22 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.52492	.07468	2.6771	32.446	97.658	-.11404	100570.
Stddev	.18000	26.208	1.1889	.971	.043	.05343	1166.
%RSD	34.290	35096.	44.408	2.9942	.04438	46.852	1.1589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0177	.22764	-.05986	8.6578	10.709	5894.3	33.230
Stddev	.0980	.05563	.08923	.2118	.831	27.2	2.173
%RSD	554.9	24.436	149.05	2.4459	7.7643	.46135	6.5392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21813.	80.564	-.04397	7212.9	3.8783	-.22951	-.4980
Stddev	69.	.190	.09489	16.2	.2354	.91788	.6444
%RSD	.31761	.23555	215.79	.22447	6.0705	399.94	129.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12827-f-1-b Acquired: 7/7/2012 2:28:22 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6716	.48496	.00841	1.4248	-1.4764	2.0247	4372.8
Stddev	.8228	.40607	.18442	.3871	.8465	.0796	25.2
%RSD	49.219	83.732	2193.1	27.168	57.339	3.9330	.57611

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	525.96
Stddev	5.17
%RSD	.98387

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9731.3	7737.7	77885.	9812.2
Stddev	110.3	92.7	113.	16.0
%RSD	1.1332	1.1979	.14487	.16313

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.09%	106.40%	100.53%	95.789%
Range				

Sample Name: 240-12605-e-1-b Acquired: 7/7/2012 2:32:15 Type: Unk
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-34643	5.1156	3.0991	10.435	54.576	-13458	56810.	.2143
Stddev	.66374	25.030	.9304	.260	.607	.04019	592.	.1341
%RSD	191.59	489.29	30.021	2.4896	1.1124	29.865	1.0417	62.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-00023	.02914	8.4867	1.1268	1905.8	10.573	36648.	.16307
Stddev	.01545	.15983	.9457	.4918	73.9	.342	334.	.02174
%RSD	6813.8	548.51	11.143	43.646	3.8791	3.2331	.91094	13.329

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-09840	5351.4	.55095	-06479	3.430	1.5485	.59465	-.09235
Stddev	.02016	67.6	.01773	.68636	1.238	.7336	.36201	.04695
%RSD	20.484	1.2626	3.2173	1059.4	36.10	47.373	60.878	50.842

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12605-e-1-b Acquired: 7/7/2012 2:32:15 Type: Unk
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4079	.32398	26.982	4214.5	49.473
Stddev	.8626	1.3522	.318	39.6	6.719
%RSD	61.265	417.38	1.1782	.94005	13.582

SiO₂

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9669.7	7785.0	77941.	9743.1
Stddev	91.6	73.0	266.	55.1
%RSD	.94780	.93754	.34120	.56581

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.456%	107.05%	100.60%	95.114%
Range				

Sample Name: CRI Acquired: 7/7/2012 2:36:02 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *6010C*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.8619	178.56	16.175	195.18	203.83	5.3787	4989.4
Stddev	.8719	8.90	1.556	1.26	1.39	.1207	29.4
%RSD	8.8409	4.9863	9.6204	.64504	.68051	2.2440	.58872

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.509	9.3678	8.8484	F 27.777	222.38	5569.6	F 9.2790
Stddev	.139	.2337	.1914	.141	1.77	54.6	.6904
%RSD	3.078	2.4948	2.1631	.50600	.79477	.98040	7.4407

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value				20.000			50.000
Range				30.500%			-30.500%

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5877.6	15.458	38.950	5887.8	37.765	10.188	20.98
Stddev	50.7	.070	.384	51.2	.319	.771	1.37
%RSD	.86229	.45315	.98570	.86962	.84351	7.5694	6.532

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 7/7/2012 2:36:02 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.130	100.15	54.188	19.401	9.8321	47.990	F -2.6141
Stddev	1.263	.43	.229	.466	2.1244	.376	2.4985
%RSD	6.2754	.42564	.42284	2.3995	21.606	.78406	95.576

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							500.00
Range							-30.500%

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-12.335
Stddev	8.019
%RSD	65.010

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9950.5	7793.9	78962.	9700.0
Stddev	33.4	23.5	341.	39.7
%RSD	.33601	.30166	.43199	.40973

Sample Name: CCV Acquired: 7/7/2012 2:39:44 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref.	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1024.7	25162.	494.00	5168.3	1998.2	F 2248.7	50983.
Stddev	1.4	20.	1.87	11.8	3.3	4.7	61.
%RSD	.13314	.08062	.37953	.22797	.16745	.20865	.12058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2000.0	
Range						10.500%	

Elem	Cd2288	Co2286	Cr2677	Cu3273	✓ Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	471.1	2008.7	1935.8	1966.0	F 28374.	52869.	5508.9
Stddev	.4	1.4	2.6	5.0	72.	39.	10.8
%RSD	.0894	.06757	.13303	.25461	.25351	.07344	.19601

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					25000.		
Range					10.500%		

Elem	✓ Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 57946.	2077.8	1964.5	52735.	2014.3	477.55	463.4
Stddev	169.	5.3	1.9	204.	2.9	1.73	1.6
%RSD	.29231	.25309	.09537	.38691	.14448	.36199	.3437

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50000.						
Range	10.500%						

Sample Name: CCV Acquired: 7/7/2012 2:39:44 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	502.04	5288.7	F 5586.7	1043.7	1987.5	2103.0	4765.8
Stddev	.32	2.2	21.6	1.8	4.5	1.2	10.8
%RSD	.06353	.04110	.38631	.17193	.22577	.05540	.22608

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5000.0				
Range			10.500%				

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4906.5
Stddev	16.9
%RSD	.34402

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8973.5	7511.4	74995.	9522.2
Stddev	14.0	13.4	87.	27.5
%RSD	.15554	.17824	.11662	.28851

Sample Name: CCB Acquired: 7/7/2012 2:43:39 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16200	2.0655	2.0945	10.193	.49669	.36515	2.0249
Stddev	.15772	24.653	.5096	1.077	.07230	.08286	1.9278
%RSD	97.353	1193.6	24.330	10.564	14.557	22.693	95.206

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0308	.12710	-.33551	F 8.8418	5.9817	474.01	11.849
Stddev	.1472	.18259	.38196	.0803	.4197	44.68	2.073
%RSD	478.3	143.65	113.84	.90841	7.0160	9.4261	17.497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.134	.14078	.25558	562.39	-.00957	-.24093	1.207
Stddev	20.265	.04642	.19209	17.21	.18535	.45871	1.492
%RSD	111.75	32.977	75.156	3.0594	1936.5	190.39	123.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/7/2012 2:43:39 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS ^a Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4411	1.4364	.83390	.34657	-.65788	-.64258	-4.0181
Stddev	1.3226	.3964	.20940	1.0176	1.3934	.05981	1.4494
%RSD	91.774	27.595	25.110	293.61	211.81	9.3077	36.073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-5.1704
Stddev	1.3573
%RSD	26.252

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9942.6	7792.1	78786.	9615.1
Stddev	51.2	39.5	335.	63.2
%RSD	.51455	.50635	.42514	.65762

Sample Name: CCV Acquired: 7/7/2012 2:47:27 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1025.7	25168.	493.37	5172.2	1997.3	F 2248.4	50972.
Stddev	3.8	182.	.79	11.7	14.6	18.4	379.
%RSD	.37098	.72321	.16013	.22591	.72937	.81734	.74432

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2000.0	
Range						10.500%	

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	472.4	2012.7	1938.3	1968.3	F 28380.	52903.	5516.0
Stddev	.5	1.4	3.6	5.0	250.	469.	50.3
%RSD	.0959	.07009	.18702	.25252	.88094	.88595	.91192

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					25000.		
Range					10.500%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 57919.	2071.2	1968.7	52903.	2018.0	477.85	463.5
Stddev	390.	21.3	2.5	518.	.6	.53	1.5
%RSD	.67364	1.0304	.12805	.97884	.03015	.11090	.3340

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50000.						
Range	10.500%						

Sample Name: CCV Acquired: 7/7/2012 2:47:27 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	502.49	5291.2	F 5595.0	1046.5	1986.3	2105.1	4774.4
Stddev	1.04	1.9	48.4	2.7	11.4	.1	30.6
%RSD	.20789	.03497	.86449	.25400	.57582	.00469	.64182

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5000.0				
Range			10.500%				

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4919.7
Stddev	43.7
%RSD	.88877

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8969.5	7513.8	74993.	9504.3
Stddev	9.7	14.1	66.	58.8
%RSD	.10787	.18795	.08760	.61838

Sample Name: CCB Acquired: 7/7/2012 2:51:22 Type: QC
Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-12159	-15.000	2.0259	13.033	.43660	.44682	1.9173
Stddev	.23041	22.023	2.0833	1.327	.39148	.06609	3.3924
%RSD	189.49	146.82	102.84	10.182	89.664	14.792	176.94

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1174	.16376	-.72372	F 9.2359	6.1311	428.90	12.504
Stddev	.0550	.02713	.07933	.4595	1.2532	24.82	1.902
%RSD	46.81	16.568	10.961	4.9754	20.439	5.7871	15.213

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				5.0000			
Low Limit				-5.0000			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.871	.16063	.07761	467.29	.24803	.41755	1.683
Stddev	7.734	.02651	.28219	3.23	.33716	.41483	2.336
%RSD	37.055	16.504	363.60	.69086	135.93	99.348	138.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/7/2012 2:51:22 Type: QC
 Method: Standard Method + Strontium(v71) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0292	1.1351	.67024	1.1640	.95431	-.73471	.29320
Stddev	2.0864	.3102	.21213	.2164	1.8841	.07040	2.2823
%RSD	102.82	27.325	31.650	18.593	197.43	9.5821	778.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-6.1987
Stddev	4.3489
%RSD	70.157

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9914.3	7772.1	78750.	9607.1
Stddev	25.2	35.1	226.	38.8
%RSD	.25394	.45163	.28745	.40414

Test America North Canton ICP Data Review Checklist

Run/Project Information:

Run Date: 7-6-12 Analyst: ngm Instrument: I9

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions (minimum 2 exposures/sample) and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? (ICV (2 nd source): 200.7=95-105%, 6010B 90-110%) (CCV: 90-110%)	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run at SOP or project-specific frequency? Recovered within QC limits? (project specific limits may vary)	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP limits?	✓			✓
B. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Was the internal standard(s) within acceptance criteria for all results reported?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Method QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS/MSD run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL/LR/IEC data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

Level I Analyst: Natalie March Date: 7-9-12 Time: 15:14-02:51

Level I Analyst: _____ Date: _____ Time: _____

Level I Analyst: _____ Date: _____ Time: _____

Level II Reviewer: B. A. J. Date: 7.9.12 Time: 15:14-02:51

Level II Reviewer: _____ Date: _____ Time: _____

Level II Reviewer: _____ Date: _____ Time: _____

Comments: VOID Ca 200.7ngm 7-9-12

Sample Name: Blank Acquired: 7/9/2012 11:45:51 Type: Cal
Method: Standard Method + Strontium(v72) Mode: IR Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00137	.00553	.00212	.00921	.01744	-.00313	.01938
Stddev	.00003	.00024	.00017	.00024	.00124	.00037	.00044
%RSD	2.5305	4.3598	8.0514	2.6479	7.1051	11.779	2.2514

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0011	.00091	.00021	-.00078	.00138	.00925	.00400
Stddev	.0003	.00033	.00005	.00011	.00007	.00042	.00278
%RSD	29.82	36.150	24.293	14.020	4.9145	4.4928	69.496

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00055	.00043	-.00008	-.00931	.00408	.00070	.0019
Stddev	.00023	.00003	.00013	.00092	.00014	.00019	.0002
%RSD	41.491	7.3296	160.39	9.8840	3.4730	27.435	11.10

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00084	.00153	.00179	-.00195	.00193	.00163	.00168
Stddev	.00007	.00016	.00018	.00014	.00033	.00009	.00010
%RSD	7.9730	10.437	9.9541	7.2521	17.199	5.7327	5.7937

Elem	Sr3464
IS Ref	(Y_3710)
Units	Cts/S
Avg	.00191
Stddev	.00068
%RSD	35.419

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8075.6	6131.5	65953.	9871.5
Stddev	60.7	31.7	57.	62.2
%RSD	.75142	.51770	.08703	.62960

Sample Name: SCAL1 Acquired: 7/9/2012 11:49:39 Type: Cal
Method: Standard Method + Strontium(v72) Mode: IR Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	As1890	B_1826	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.82714	.14246	7.4405	21.681	48.823	3.152	5.3773	1.6749
Stddev	.00224	.00179	.0639	.186	.390	.055	.1144	.0043
%RSD	.27058	1.2539	.85828	.85997	.79843	1.733	2.1277	.25410

Elem	Cu3273	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960
IS Ref	(Y_3600)	(Y_3710)	(Y_3600)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.92170	12.530	10.249	6.2584	3.4095	.54688	.2033	.16596
Stddev	.00061	.016	.106	.1316	.0712	.00627	.0033	.00171
%RSD	.06652	.12587	1.0305	2.1031	2.0893	1.1456	1.600	1.0333

Elem	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Sr3464
IS Ref	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.9839	10.238	.32800	.96129	7.9931	1.9126
Stddev	.0967	.016	.00507	.00228	.1485	.0049
%RSD	2.4268	.15623	1.5459	.23678	1.8576	.25829

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7945.5	6218.4	67592.	10286.
Stddev	14.4	9.5	312.	66.
%RSD	.18129	.15354	.46122	.64377

Sample Name: SCAL2 Acquired: 7/9/2012 11:53:55 Type: Cal
 Method: Standard Method + Strontium(v72) Mode: IR Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Al3082	Ca3179	Fe2599	K_7664	Mg2790	Na5895	Si2516
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.3291	27.062	14.231	4.7127	3.8331	19.777	.69972
Stddev	.0017	.269	.009	.0025	.0031	.010	.00327
%RSD	.12764	.99390	.06005	.05309	.08178	.05113	.46709

Int. Std.	Y_3710
Units	Cts/S
Avg	9962.3
Stddev	9.8
%RSD	.09850

Sample Name: ICV Acquired: 7/9/2012 11:57:49 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	771.20	12268.	374.07	1520.3	W 1613.7	1538.4	26007.
Stddev	.35	31.	1.86	1.9	3.9	3.5	60.
%RSD	.04539	.24890	.49843	.12559	.24025	.22866	.23232

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value					1500.0		
Range					5.5000%		

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	376.6	1473.6	1507.1	1472.7	12555.	24995.	1005.4
Stddev	.6	2.0	6.1	4.9	32.	102.	2.5
%RSD	.1713	.13754	.40447	.33494	.25404	.40613	.24967

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25293.	1530.2	1483.3	25175.	1463.3	372.19	385.3
Stddev	89.	3.0	2.3	65.	.8	.91	.1
%RSD	.35328	.19393	.15259	.25807	.05730	.24558	.0383

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 7/9/2012 11:57:49 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	376.91	1517.0	1550.3	744.61	1503.4	1498.1	3122.3
Stddev	1.37	1.3	2.1	1.67	1.1	1.0	9.6
%RSD	.36374	.08477	.13409	.22387	.07060	.06586	.30840

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4490.5
Stddev	17.1
%RSD	.37979

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7743.0	6055.8	64293.	9791.5
Stddev	17.5	11.4	128.	61.2
%RSD	.22619	.18878	.19958	.62485

Sample Name: ICB Acquired: 7/9/2012 12:01:29 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60121	-11.982	-1.4425	3.9594	-.17093	-.05379	-1.6495	.0219
Stddev	.21890	10.106	.4068	.5654	.25128	.01713	2.0405	.0944
%RSD	36.409	84.349	28.204	14.280	147.01	31.839	123.70	431.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01406	-.05539	.99252	-.10976	91.826	1.7565	-.32009	-.08779
Stddev	.10086	.27304	.23344	.39771	16.602	1.4153	8.4107	.02454
%RSD	717.52	492.95	23.520	362.33	18.080	80.575	2627.6	27.949

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.14998	19.054	-.07764	-1.1424	-1.342	1.4484	-.19579	-.30833
Stddev	.14954	7.357	.46864	.8553	3.015	.7968	.17921	.13441
%RSD	99.708	38.614	603.63	74.869	224.7	55.012	91.534	43.593

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB Acquired: 7/9/2012 12:01:29 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.0218	1.3302	-.03576	-.93109	-2.2044
Stddev	1.1456	1.7721	.01194	.28153	2.3386
%RSD	112.11	133.22	33.389	30.237	106.09

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8343.6	6338.4	67991.	10220.
Stddev	22.4	15.9	191.	51.
%RSD	.26853	.25061	.28035	.49933

Sample Name: CRI Acquired: 7/9/2012 12:05:19 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.9256	143.54	11.940	190.83	9.7677	4.7546	4921.6	4.785	4.7230
Stddev	.1552	21.59	1.027	1.23	.1471	.0477	20.8	.086	.1927
%RSD	3.1510	15.042	8.5978	.64253	1.5062	1.0035	.42258	1.786	4.0804

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.9218	15.073	302.40	4928.9	49.324	5105.9	15.227	9.7196	4986.2
Stddev	.1869	1.117	1.40	13.8	1.764	31.0	.044	.0992	12.8
%RSD	3.7975	7.4111	.46454	.27993	3.5764	.60722	.28714	1.0204	.25701

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.538	9.0030	9.438	19.499	99.119	51.485	13.936	6.4980	38.671
Stddev	.407	.8389	2.707	.747	.867	.169	1.135	1.9036	.161
%RSD	1.7293	9.3176	28.68	3.8324	.87467	.32738	8.1469	29.294	.41637

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CRI Acquired: 7/9/2012 12:05:19 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	502.29	45.645
Stddev	5.38	2.564
%RSD	1.0711	5.6181

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8282.5	6316.8	66723.	10234.
Stddev	19.3	14.4	105.	48.
%RSD	.23347	.22856	.15725	.46980

Sample Name: CRILL Acquired: 7/9/2012 12:09:03 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.3435	185.09	8.6552	190.78	204.79	4.8707	5022.5	1.999	6.6851
Stddev	.2259	5.25	1.3112	.14	1.45	.0348	33.2	.176	.0309
%RSD	4.2282	2.8362	15.149	.07427	.70649	.71448	.66160	8.785	.46176

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.9162	24.931	103.09	5034.8	50.134	5164.9	15.279	9.8093	5053.8
Stddev	.2435	.266	.97	69.1	.709	29.3	.009	.0679	14.9
%RSD	4.9528	1.0687	.94171	1.3721	1.4147	.56654	.05717	.69206	.29406

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.279	2.7986	9.899	3.8393	98.857	51.421	10.606	4.9440	19.444
Stddev	.228	.7716	1.966	1.3582	.506	.208	1.318	1.1548	.141
%RSD	.59518	27.571	19.86	35.377	.51190	.40544	12.428	23.359	.72537

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CRILL Acquired: 7/9/2012 12:09:03 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	498.84	48.557
Stddev	7.97	4.144
%RSD	1.5984	8.5334

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8178.7	6225.1	66505.	10052.
Stddev	25.9	18.7	241.	44.
%RSD	.31696	.30063	.36222	.43963

Sample Name: ICSA Acquired: 7/9/2012 12:12:48 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.79449	527710.	4.1175	-6.6604	.01970	-.55062	497200.
Stddev	.14125	1075.	1.8140	.4056	.05479	.03814	2263.
%RSD	17.779	.20378	44.055	6.0904	278.13	6.9267	.45517

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.116	-1.2571	3.1241	1.0876	196100.	22.490	-16.480
Stddev	.334	.1740	.3844	.5418	1593.	20.221	.608
%RSD	29.95	13.839	12.304	49.811	.81207	89.911	3.6912

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	514020.	.89122	-1.6465	73.785	1.6222	4.3002	-1.224
Stddev	518.	.04482	.0954	10.090	.1953	1.1419	2.756
%RSD	.10073	5.0291	5.7944	13.675	12.041	26.555	225.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 7/9/2012 12:12:48 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7921	5.3821	-.67299	-1.6634	-2.0052	6.4496	-11.451
Stddev	2.9853	.4125	.05633	1.0767	1.7475	.0765	2.455
%RSD	62.296	7.6653	8.3708	64.730	87.150	1.1863	21.444

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	8.0201
Stddev	4.6121
%RSD	57.506

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7142.9	5820.4	60770.	9886.4
Stddev	10.9	8.1	204.	47.7
%RSD	.15313	.13842	.33573	.48248

Sample Name: ICSAB Acquired: 7/9/2012 12:16:45 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1069.2	517800.	993.42	501.54	527.96	495.35	494770.
Stddev	1.4	2042.	3.18	.91	1.67	.87	1930.
%RSD	.12689	.39446	.32012	.18162	.31613	.17594	.39016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1002.	472.53	483.55	508.66	191750.	10577.	512.02
Stddev	3.	2.07	1.06	1.95	1236.	48.	1.60
%RSD	.3141	.43718	.22004	.38269	.64459	.45614	.31188

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505380.	491.04	955.70	10574.	939.62	912.96	1007.
Stddev	1040.	.82	3.59	28.	3.55	1.64	8.
%RSD	.20579	.16774	.37565	.26502	.37773	.17933	.8353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 7/9/2012 12:16:45 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	971.86	505.29	513.86	939.68	484.61	954.83	9937.4
Stddev	3.02	3.95	.66	2.14	2.57	3.68	22.6
%RSD	.31112	.78176	.12921	.22799	.53044	.38534	.22739

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1441.3
Stddev	7.6
%RSD	.52487

Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6981.7	5735.2	59730.	9691.7
Stddev	2.7	9.5	178.	53.8
%RSD	.03851	.16599	.29879	.55461

Sample Name: CCV Acquired: 7/9/2012 12:20:40 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	981.55	25121.	494.86	4888.8	1957.5	1986.3	50430.	492.8	1922.5
Stddev	1.42	196.	2.95	19.4	11.2	10.2	359.	3.5	15.8
%RSD	.14518	.78176	.59606	.39773	.56990	.51123	.71201	.7011	.82100

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1931.0	1910.6	25140.	49155.	4890.2	49617.	1919.3	1941.5	49440.
Stddev	2.0	3.8	57.	278.	21.4	130.	10.7	14.6	357.
%RSD	.10223	.19992	.22868	.56553	.43836	.26192	.55522	.75395	.72174

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1922.4	482.66	486.6	494.46	4903.2	4964.2	975.21	1952.4	1955.0
Stddev	15.3	1.89	4.7	1.52	49.1	23.2	5.45	16.7	13.6
%RSD	.79393	.39167	.9760	.30682	1.0016	.46755	.55930	.85401	.69740

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/9/2012 12:20:40 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4914.6	4848.6
Stddev	7.9	43.7
%RSD	.16146	.90039

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7626.0	6045.4	64399.	9792.4
Stddev	14.3	12.0	275.	37.0
%RSD	.18693	.19891	.42717	.37748

Sample Name: CCB Acquired: 7/9/2012 12:24:35 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.94165	-.38751	-1.7089	4.5437	-.37301	-.05814	.70214	-.1276
Stddev	.48274	3.2598	.5369	.4702	.04120	.02486	1.7628	.1426
%RSD	51.265	841.21	31.416	10.347	11.045	42.762	251.06	111.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09723	-.16386	1.2754	1.0117	93.396	2.9572	-3.3116	-.03506
Stddev	.04465	.41598	.3550	1.3213	14.629	1.3051	2.9820	.03201
%RSD	45.921	253.86	27.831	130.60	15.663	44.131	90.048	91.291

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15017	37.785	-.61695	-.14659	.2824	1.5792	-.53731	-.16044
Stddev	.10607	7.768	.27516	.52391	1.254	.3493	.19838	.11332
%RSD	70.635	20.559	44.600	357.40	444.1	22.121	36.922	70.631

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 12:24:35 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3504	.14430	.22594	.14771	2.0932
Stddev	.7603	1.5380	.06845	1.4456	6.5084
%RSD	56.302	1065.8	30.293	978.67	310.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8420.7	6407.8	68782.	10334.
Stddev	56.8	47.3	248.	62.
%RSD	.67429	.73839	.36055	.60299

Sample Name: As 5 ppm Acquired: 7/9/2012 12:28:25 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.45557	-29.165	4981.8	-5.6528	-.40346	-.12178	-47.982	-.5751
Stddev	.09024	12.621	1.4	.1614	.14744	.06723	1.074	.2111
%RSD	19.807	43.275	.02722	2.8549	36.544	55.203	2.2376	36.70

Check ?	None	None	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01807	-.34464	.35296	-.80514	91.652	3.5949	.96787	-.11942
Stddev	.08537	.20550	.48356	1.0765	59.174	1.5751	5.6597	.00810
%RSD	472.32	59.630	137.00	133.70	64.564	43.814	584.76	6.7798

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16064	21.966	-.76989	-.46331	-.0127	-.20790	-.25738	-.21984
Stddev	.18624	9.216	.33064	.20846	1.086	1.8271	.20781	.09666
%RSD	115.93	41.954	42.946	44.993	8551.	878.84	80.741	43.968

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: As 5 ppm Acquired: 7/9/2012 12:28:25 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4815	-.26192	-.40503	3.7339	4.6663
Stddev	1.1461	1.7263	.02198	2.1645	4.8614
%RSD	77.362	659.08	5.4278	57.970	104.18

Check ?	None	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8623.6	6476.2	69345.	10370.
Stddev	35.6	28.0	254.	20.
%RSD	.41330	.43173	.36631	.19148

Sample Name: Ti 30 ppm Acquired: 7/9/2012 12:32:13 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37550	-5.7083	-1.4851	-6.0389	-.56579	-.07210	-49.191	-.0189
Stddev	.64968	10.351	1.0983	.1039	.18991	.04691	.506	.1464
%RSD	173.02	181.32	73.955	1.7199	33.565	65.071	1.0278	775.7

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4194	1.0271	-12.745	-4.1525	110.20	4.1494	-100.04	-.09140
Stddev	.4257	.3395	.707	1.0907	63.33	.7933	5.54	.01994
%RSD	17.594	33.055	5.5500	26.267	57.469	19.118	5.5340	21.819

Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33565	15.319	-1.3250	-4.3757	.3267	-.47945	2.2804	29353.
Stddev	.04768	2.571	.0369	.7463	1.711	2.4399	.3729	321.
%RSD	14.205	16.785	2.7832	17.055	523.7	508.90	16.353	1.0928

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: Ti 30 ppm Acquired: 7/9/2012 12:32:13 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-3.5462	-89809	-52411	637.17	2.7434
Stddev	1.3518	1.5333	.04206	47.08	4.0620
%RSD	38.120	170.73	8.0252	7.3887	148.06

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8347.2	6325.7	67217.	10077.
Stddev	10.7	15.1	495.	37.
%RSD	.12792	.23808	.73635	.36687

Sample Name: Co 10 ppm Acquired: 7/9/2012 12:36:09 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75797	-29.805	.20204	-8.0639	-.44946	-.17843	-48.914	-.0278
Stddev	.37448	24.387	1.8123	.1431	.16404	.05871	2.556	.0983
%RSD	49.405	81.823	897.00	1.7748	36.496	32.903	5.2246	353.5

Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9732.8	-.00701	.01752	-.97443	88.014	4.1867	-14.670	-.13718
Stddev	16.6	.22246	.28413	.39995	17.049	1.6505	3.398	.02466
%RSD	.17105	3173.9	1621.8	41.044	19.371	39.421	23.166	17.976

Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16328	10.315	-.82106	-.29540	3.034	.17070	-.21613	.66200
Stddev	.13954	4.928	.26736	.88839	.501	1.5383	.35990	.10758
%RSD	85.464	47.769	32.563	300.75	16.50	901.18	166.52	16.251

Check ?	None	None	Chk Pass	None	Chk Pass	None	None	None
Value								
Range								

Sample Name: Co 10 ppm Acquired: 7/9/2012 12:36:09 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.32867	.65276	.60012	17.704	2.6613
Stddev	1.2833	2.0066	.04024	5.244	6.2672
%RSD	390.46	307.41	6.7061	29.622	235.49

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8649.2	6525.7	69781.	10472.
Stddev	15.7	9.4	156.	34.
%RSD	.18164	.14342	.22380	.32011

Sample Name: Al 500 ppm Acquired: 7/9/2012 12:39:58 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27058	510270.	.00272	-7.8418	-.28895	-.12142	-47.054
Stddev	.28422	1702.	1.2233	.3081	.00417	.02201	.932
%RSD	105.04	.33358	44901.	3.9286	1.4432	18.130	1.9816

Check ?	None	None	Chk Pass	None	None	None	None
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0212	.19531	-.21595	.98484	1.2494	81.986	3.3153
Stddev	.1359	.14825	.24736	.63856	.5456	33.756	.5653
%RSD	642.2	75.906	114.54	64.839	43.669	41.173	17.051

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.5662	-.33276	-.85955	21.319	.01520	2.3812	2.977
Stddev	4.5858	.00634	.11025	6.955	.24187	.4622	1.323
%RSD	53.533	1.9043	12.827	32.623	1590.9	19.409	44.45

Check ?	None	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: Al 500 ppm Acquired: 7/9/2012 12:39:58 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0180	3.1172	.11396	-2.5015	-.20833	2.2141	7.5809
Stddev	1.4833	.6851	.14874	.6865	.67306	.1964	2.4364
%RSD	145.71	21.976	130.52	27.445	323.08	8.8696	32.139

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3.7942
Stddev	2.2739
%RSD	59.931

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8148.9	6448.9	65676.	10354.
Stddev	12.5	15.7	402.	69.
%RSD	.15394	.24394	.61238	.66639

Sample Name: Fe 500 ppm Acquired: 7/9/2012 12:43:40 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.70640	6.2096	.59730	-9.4573	-.46045	-.17327	-62.309
Stddev	.22097	27.382	.34359	.3723	.17675	.00943	.639
%RSD	31.282	440.96	57.524	3.9361	38.388	5.4422	1.0255

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0484	2.1507	3.0379	.00107	488520.	-55.026	5.7049
Stddev	.1544	.1927	.2102	.49820	5314.	33.763	1.0865
%RSD	319.2	8.9607	6.9211	46521.	1.0878	61.358	19.046

Check ?	Chk Pass	None	None	Chk Pass	None	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-65.580	5.9758	-1.9040	16.836	-.64347	-.75346	3.929
Stddev	9.351	.0338	.2475	5.924	.54929	.47981	.971
%RSD	14.259	.56552	12.996	35.188	85.364	63.680	24.71

Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: Fe 500 ppm Acquired: 7/9/2012 12:43:40 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.2694	2.1488	.85194	5.5471	-1.6967	5.2789	-24.447
Stddev	.0767	.2959	.18762	.3142	1.2649	.0897	1.747
%RSD	1.2230	13.770	22.023	5.6638	74.552	1.6995	7.1470

Check ?	None	None	None	None	Chk Pass	None	None
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	14.200
Stddev	2.008
%RSD	14.144

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units:	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8399.6	6309.9	65954.	9947.8
Stddev	35.4	26.2	216.	78.6
%RSD	.42189	.41490	.32690	.78963

Sample Name: V 5 ppm Acquired: 7/9/2012 12:47:34 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2004	.01891	-1.3117	-9.5724	-.56744	.00968	-47.609	.1590
Stddev	.1141	8.1153	.8186	.0369	.18191	.04338	2.552	.0876
%RSD	9.5065	42912.	62.405	.38497	32.058	448.12	5.3612	55.10

Check ?	None	Chk Pass	None	None	None	Chk Pass	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32843	-.71802	.13619	13.753	120.70	5.6122	-6.6233	-.11357
Stddev	.03793	.18992	.46313	2.968	64.47	.6089	8.8727	.01776
%RSD	11.549	26.450	340.06	21.581	53.414	10.849	133.96	15.642

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.73095	7.2855	-.92136	.34553	-2.276	.60125	-.44310	-.37571
Stddev	.18702	7.1036	.21866	.31880	3.330	.51836	.24448	.05289
%RSD	25.586	97.502	23.732	92.262	146.3	86.213	55.175	14.077

Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Sample Name: V 5 ppm Acquired: 7/9/2012 12:47:34 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.53905	4963.0	-.49289	5.7000	2.1566
Stddev	.12142	17.4	.09427	1.9723	3.0841
%RSD	22.525	.35094	19.127	34.602	143.01

Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8656.2	6588.8	69986.	10422.
Stddev	16.7	17.9	22.	25.
%RSD	.19346	.27239	.03092	.24040

Sample Name: MB 240-50081/1-A Acquired: 7/9/2012 12:51:24 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.51957	-15.889	-1.1037	-6.8552	.38183	-.08571	171.94	.0509
Stddev	.32874	19.777	.9109	.1544	.23335	.06224	1.15	.0815
%RSD	63.272	124.47	82.536	2.2519	61.114	72.616	.67087	160.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06284	.19482	1.4602	47.465	182.76	7.0517	27.355	.56659
Stddev	.17244	.11664	.2071	.626	29.96	.6358	8.377	.03352
%RSD	274.41	59.868	14.181	1.3198	16.394	9.0162	30.622	5.9161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00292	82.282	.26219	-.12909	1.294	.83228	30.949	-.15839
Stddev	.13085	7.987	.09193	.83309	.888	1.5464	1.252	.07195
%RSD	4476.2	9.7074	35.061	645.37	68.66	185.80	4.0436	45.428

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: MB 240-50081/1-A Acquired: 7/9/2012 12:51:24 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-51441	-46742	11.406	7.8466	4.2559
Stddev	.40652	2.1526	.022	7.2741	3.1796
%RSD	79.026	460.52	.19232	92.704	74.710

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8242.4	6326.2	68037.	10119.
Stddev	12.8	21.7	164.	68.
%RSD	.15563	.34371	.24047	.67095

Sample Name: LCS 240-50081/2-A Acquired: 7/9/2012 12:55:13 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.670	1806.3	1781.3	893.27	1906.8	44.745	47464.	45.99	430.21
Stddev	.191	19.2	6.3	3.07	9.1	.150	230.	.31	.80
%RSD	.39194	1.0607	.35644	.34352	.47871	.33473	.48486	.6827	.18702

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	176.19	215.26	977.79	46178.	922.61	46543.	447.91	894.90	46618.
Stddev	.40	.85	1.89	194.	1.85	120.	.85	2.10	135.
%RSD	.22608	.39257	.19305	.42106	.20024	.25705	.19083	.23446	.29011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	Y_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	431.81	450.85	450.8	1766.7	1847.0	935.40	1796.4	450.54	457.40
Stddev	.28	.98	2.7	4.8	1.7	1.86	3.3	2.40	.32
%RSD	.06524	.21708	.5924	.26898	.09110	.19880	.18124	.53276	.06947

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: LCS 240-50081/2-A Acquired: 7/9/2012 12:55:13 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	957.14	897.67
Stddev	8.37	.67
%RSD	.87436	.07439

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7674.0	5997.0	63609.	9486.3
Stddev	16.7	3.6	106.	35.2
%RSD	.21724	.06035	.16590	.37070

Sample Name: 240-12942-B-1-B Acquired: 7/9/2012 12:58:51 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1780	81082.	155.53	5.4621	1235.9	5.6242	3276.8
Stddev	.0863	225.	.42	.4177	4.1	.0527	7.0
%RSD	7.3224	.27760	.27018	7.6472	.33090	.93676	.21438

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.576	86.597	131.92	127.13	293400.	4722.4	76.822
Stddev	.065	.394	.37	.87	1315.	36.1	1.775
%RSD	2.527	.45486	.27893	.68384	.44804	.76382	2.3101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13745.	10979.	24.739	252.30	197.71	219.63	2.807
Stddev	20.	17.	.256	11.08	1.00	.82	1.919
%RSD	.14249	.15200	1.0363	4.3929	.50473	.37320	68.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-1-B Acquired: 7/9/2012 12:58:51 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem.	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.5085	21.279	834.22	26.447	186.95	815.61	2118.1
Stddev	.7225	.970	.51	.318	1.72	4.57	2.2
%RSD	8.4916	4.5581	.06111	1.2013	.92202	.55985	.10553

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	45.442
Stddev	5.976
%RSD	13.150

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8387.8	7421.8	77835.	11718.
Stddev	5.8	9.5	240.	24.
%RSD	.06964	.12756	.30807	.20494

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.87%	121.04%	118.02%	118.71%
Range				

05

Sample Name: sd 240-12942-B-1-B^Λ Acquired: 7/9/2012 13:02:49 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25134	17982	33.395	-4.3827	269.48	1.1600	704.64	4976
Stddev	.60468	71.	1.624	.1659	.51	.0389	4.18	.1597
%RSD	240.58	.39474	4.8635	3.7857	.19066	3.3533	.59356	32.10

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.564	29.562	28.620	68028.	1168.0	24.054	3102.4	2635.7
Stddev	.083	.258	.631	144.	16.8	.818	11.1	20.8
%RSD	.47444	.87426	2.2049	.21136	1.4361	3.4021	.35838	.78964

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.5893	82.211	39.505	50.335	-.2731	2.8571	4.3365	184.06
Stddev	.1239	3.376	.241	.597	2.172	2.8181	.1765	.38
%RSD	2.2167	4.1064	.60942	1.1860	795.2	98.638	4.0709	.20724

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: sd 240-12942-B-1-B Acquired: 7/9/2012 13:02:49 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	5.1165	39.507	168.59	476.14	12.081
Stddev	.8652	.455	.07	5.32	2.931
%RSD	16.911	1.1526	.04256	1.1177	24.265

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8380.9	6635.6	69746.	10479.
Stddev	11.7	8.4	107.	12.
%RSD	.13984	.12589	.15356	.11188

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.78%	108.22%	105.75%	106.15%
Range				

Sample Name: CCV Acquired: 7/9/2012 13:06:47 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1002.4	25229.	497.76	4890.0	1977.4	2014.3	51032.	492.1	1952.2
Stddev	.7	201.	2.38	6.3	12.8	9.3	335.	1.5	7.0
%RSD	.07352	.79773	.47842	.12952	.64924	.46228	.65619	.3109	.35640

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1962.2	1933.4	25335.	49443.	4921.3	50426.	1948.7	1950.6	49562.
Stddev	3.5	2.2	61.	204.	19.2	148.	18.1	9.2	211.
%RSD	.18011	.11455	.23980	.41266	.39010	.29281	.92629	.47039	.42603

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1955.2	486.52	484.2	501.32	5014.6	5037.4	975.93	1976.3	1993.3
Stddev	7.2	2.44	3.2	1.79	26.5	80.1	2.22	10.6	6.9
%RSD	.36657	.50170	.6594	.35795	.52920	1.5898	.22756	.53796	.34506

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Sample Name: CCV Acquired: 7/9/2012 13:06:47 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4910.3	4864.1
Stddev	7.4	22.8
%RSD	.15062	.46794

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7679.3	6119.8	64652.	9877.5
Stddev	7.7	1.8	59.	12.3
%RSD	.09967	.02993	.09058	.12416

Sample Name: CCB Acquired: 7/9/2012 13:10:42 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35954	-14.359	-1.8913	3.7510	-53180	.02978	5.3224	-.0896
Stddev	.60927	11.284	1.4009	.7341	.14330	.02481	.6437	.0423
%RSD	169.46	78.583	74.074	19.572	26.945	83.311	12.095	47.24

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04305	-.18799	.45417	2.4538	164.62	8.1133	-6.5326	-.01199
Stddev	.04313	.06625	.23842	1.0339	35.83	1.5028	4.6370	.02196
%RSD	100.19	35.243	52.495	42.136	21.767	18.522	70.982	183.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12926	46.733	-.48021	-.86760	-1.286	-.30959	.13967	-.22216
Stddev	.02802	7.170	.41191	.86933	2.650	.39517	.19852	.06609
%RSD	21.681	15.342	85.777	100.20	206.0	127.64	142.14	29.747

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 13:10:42 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.25107	-1.4305	.19147	2.1027	1.2703
Stddev	1.0662	2.1312	.04621	9.6270	3.9257
%RSD	424.66	148.99	24.134	457.84	309.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8538.6	6526.1	69252.	10187.
Stddev	19.2	18.0	31.	31.
%RSD	.22440	.27633	.04478	.30676

Sample Name: 240-12942-B-1-C MS Acquired: 7/9/2012 13:14:34 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.985	92870.	1720.1	777.06	2924.5	45.662	47098.
Stddev	.335	325.	2.1	.47	6.0	.109	169.
%RSD	.76261	.35030	.12326	.06071	.20654	.23978	.35791

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.67	528.68	298.73	307.90	187550.	48066.	927.76
Stddev	.30	1.19	.36	.48	1537.	126.	1.13
%RSD	.7129	.22530	.12183	.15519	.81949	.26242	.12165

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56722.	9977.7	808.86	42872.	644.12	589.02	171.6
Stddev	127.	25.3	2.61	119.	1.60	1.22	1.0
%RSD	.22390	.25340	.32233	.27752	.24820	.20664	.5596

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-1-C MS Acquired: 7/9/2012 13:14:34 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1597.9	1782.9	1681.2	1805.3	593.71	1191.0	3296.9
Stddev	2.7	5.9	.9	5.3	1.56	3.3	9.0
%RSD	.17178	.33314	.05418	.29351	.26311	.27339	.27279

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	881.66
Stddev	5.83
%RSD	.66157

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7851.8	7032.2	73826.	11249.
Stddev	29.2	32.0	201.	46.
%RSD	.37133	.45538	.27261	.41063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.229%	114.69%	111.94%	113.96%
Range				

Sample Name: 240-12942-B-1-D MSD Acquired: 7/9/2012 13:18:29 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.350	85845.	1683.1	764.06	3036.0	44.669	45467.
Stddev	.403	102.	3.9	1.53	7.3	.099	71.
%RSD	.90925	.11890	.23028	.20045	.24197	.22235	.15599

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.28	513.55	269.44	298.32	172800.	46256.	907.35
Stddev	.20	1.52	.54	.39	1345.	77.	1.60
%RSD	.4627	.29586	.20115	.13105	.77847	.16557	.17673

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54911.	9852.5	799.06	42077.	610.02	580.28	169.5
Stddev	27.	41.9	1.84	43.	2.98	2.03	1.3
%RSD	.04903	.42499	.23070	.10108	.48871	.35028	.7613

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-1-D MSD Acquired: 7/9/2012 13:18:29 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1573.4	1768.1	1693.3	1779.4	567.59	1129.2	3933.2
Stddev	2.0	8.6	4.4	1.7	2.56	3.3	9.8
%RSD	.12420	.48609	.26019	.09588	.45122	.28799	.24942

Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Sr3464 (Y_3710)
Units	ppb
Avg	856.56
Stddev	.13
%RSD	.01547

Check ? High Limit Low Limit	Chk Pass
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Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7740.7	6905.8	72238.	11033.
Stddev	15.2	4.9	105.	33.
%RSD	.19667	.07115	.14513	.29889

Check ? Value Range	Chk Pass 95.853%	Chk Pass 112.63%	Chk Pass 109.53%	Chk Pass 111.76%
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Sample Name: CRIC Acquired: 7/9/2012 13:22:27 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

12817
 12837
 12866
 12621
 12540

6010C

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.8190	196.83	13.157	187.73	203.40	4.8557	5046.3
Stddev	.2806	22.39	.731	.27	.38	.0245	6.0
%RSD	2.8575	11.376	5.5567	.14460	.18459	.50541	.11918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.676	9.3953	9.4739	19.186	205.06	5099.5	F 8.2720
Stddev	.189	.1103	.0556	.365	.92	53.6	1.5314
%RSD	4.044	1.1743	.58647	1.9049	.44942	1.0505	18.513

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							50.000
Range							-30.500%

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5180.4	14.957	39.070	5078.5	37.432	8.7221	18.51
Stddev	17.9	.015	.222	11.1	.397	.8720	1.39
%RSD	.34531	.09703	.56923	.21841	1.0599	9.9974	7.526

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRIC *Wm 7-10-12* Acquired: 7/9/2012 13:22:27 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.204	97.440	49.816	19.235	8.8196	47.547	F 13.283
Stddev	1.812	.264	.140	1.157	1.1843	.116	2.521
%RSD	9.4364	.27138	.28058	6.0129	13.428	.24357	18.982

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							500.00
Range							-30.500%

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1.1078
Stddev	1.7840
%RSD	161.04

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8553.6	6527.3	66482.	9776.7
Stddev	10.5	10.6	229.	18.5
%RSD	.12257	.16231	.34387	.18917

Sample Name: 240-12942-B-2-B Acquired: 7/9/2012 13:26:13 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36203	69212.	101.13	3.4719	530.80	4.0380	6201.4
Stddev	.31968	221.	1.35	.2492	.77	.0191	15.6
%RSD	88.302	.31874	1.3321	7.1782	.14510	.47168	.25156

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.797	61.447	87.202	125.59	235850.	4162.8	67.371
Stddev	.083	.474	.236	1.61	1535.	41.5	1.348
%RSD	4.620	.77137	.27044	1.2816	.65102	.99678	2.0005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14863.	5272.8	17.183	256.66	148.19	101.93	.1579
Stddev	22.	24.3	.183	10.82	.96	1.01	.3447
%RSD	.15095	.46180	1.0655	4.2153	.64806	.99153	218.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-2-B Acquired: 7/9/2012 13:26:13 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.5306	15.955	991.66	10.921	145.96	636.81	2085.1
Stddev	.9459	1.142	.38	1.095	1.44	2.94	6.0
%RSD	17.102	7.1596	.03812	10.024	.98518	.46237	.28801

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	51.935
Stddev	5.880
%RSD	11.321

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8249.1	7183.6	75465.	11463.
Stddev	22.7	16.8	186.	81.
%RSD	.27520	.23377	.24588	.71061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.15%	117.16%	114.42%	116.12%
Range				

Sample Name: MB 240-49896/1-A Acquired: 7/9/2012 13:58:18 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37543	-25.105	-2.4001	-5.6481	1.7443	-.05016	141.29	-.0237
Stddev	.32575	9.270	1.3212	.2440	.4798	.01766	2.06	.1095
%RSD	86.769	36.926	55.049	4.3209	27.503	35.209	1.4613	461.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18818	.18316	4.3692	63.323	201.72	11.135	33.751	.69750
Stddev	.10268	.19196	.9410	1.654	10.14	1.425	9.446	.05308
%RSD	54.562	104.81	21.537	2.6118	5.0270	12.797	27.989	7.6107

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04957	105.94	.51093	-.63732	1.529	.67226	28.926	-.01944
Stddev	.12539	6.54	.29849	1.0215	2.483	1.2453	.183	.21890
%RSD	252.96	6.1700	58.421	160.28	162.4	185.24	.63254	1126.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: MB 240-49896/1-A Acquired: 7/9/2012 13:58:18 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.77241	-1.73554	7.0122	10.849	-1.7068
Stddev	.42491	1.6292	.1612	6.018	2.5744
%RSD	55.011	221.50	2.2984	55.471	150.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8286.0	6350.6	68367.	9906.0
Stddev	20.7	9.9	148.	46.5
%RSD	.24945	.15626	.21710	.46892

Sample Name: LCS 240-49896/2-A Acquired: 7/9/2012 14:02:07 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.790	2056.2	1973.8	976.32	2114.0	50.428	53520.	49.23	480.82
Stddev	.746	3.3	1.5	1.08	4.3	.115	139.	.21	1.12
%RSD	1.4974	.16025	.07555	.11083	.20300	.22800	.25988	.4281	.23287

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	196.10	239.93	1124.1	51287.	1016.8	52514.	493.38	986.14	51609.
Stddev	.53	1.41	6.4	30.	1.4	94.	1.17	.16	49.
%RSD	.27217	.58892	.56979	.05928	.14228	.17829	.23804	.01608	.09429

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	481.05	480.11	503.4	1915.3	2018.2	1028.1	1918.3	507.62	503.63
Stddev	1.40	2.01	2.0	2.5	5.3	2.1	4.6	2.00	1.15
%RSD	.29094	.41957	.3923	.12794	.26405	.20042	.23880	.39306	.22896

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: LCS 240-49896/2-A Acquired: 7/9/2012 14:02:07 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	1021.2	1015.2
Stddev	5.9	7.5
%RSD	.57660	.74069

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8021.4	6269.8	66158.	9417.6
Stddev	13.6	3.8	1370.	16.3
%RSD	.16952	.06075	2.0713	.17360

Sample Name: 240-12817-B-3-C Acquired: 7/9/2012 14:05:45 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.15333	42085.	25.614	-1.1408	114.88	3.2837	1389.0
Stddev	.43476	273.	2.428	.2457	.80	.0161	12.5
%RSD	283.54	.64754	9.4790	21.538	.69974	.48929	.89667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1395	35.953	88.740	50.715	108420.	2532.2	30.827
Stddev	.0796	.197	.283	1.152	729.	27.2	.322
%RSD	57.08	.54905	.31848	2.2724	.67281	1.0724	1.0431

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2454.8	249.27	3.5857	225.25	45.304	30.363	-.3647
Stddev	12.0	.71	.1595	9.56	.534	.808	1.151
%RSD	.49045	.28613	4.4494	4.2453	1.1794	2.6618	315.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12817-B-3-C Acquired: 7/9/2012 14:05:45 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6751	16.904	913.00	-1.2712	173.71	119.65	2463.4
Stddev	1.1153	.136	1.56	.2641	1.01	.26	7.1
%RSD	41.692	.80171	.17072	20.775	.58170	.21603	.28684

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	16.524
Stddev	3.750
%RSD	22.692

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8482.5	7315.3	77192.	11546.
Stddev	26.0	15.4	290.	18.
%RSD	.30646	.21068	.37609	.15675

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.04%	119.31%	117.04%	116.96%
Range				

Sample Name: sd 240-12817-B-3-C Acquired: 7/9/2012 14:09:38 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.00332	9199.6	4.8743	-6.3260	24.490	.65093	278.28	-.1050
Stddev	.34961	28.5	.5423	.3423	.417	.04742	3.48	.1680
%RSD	10518.	.31008	11.126	5.4103	1.7021	7.2856	1.2514	160.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	<u>Cu3273</u>	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.3914	19.389	11.845	24280.	663.19	14.110	539.21	54.935
Stddev	.2141	.198	.889	81.	41.41	.278	7.60	.124
%RSD	2.8966	1.0192	7.5043	.33217	6.2448	1.9725	1.4104	.22497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.59334	73.092	8.6187	6.0465	1.048	.76958	3.2719	198.48
Stddev	.17605	8.267	.0443	1.9157	.853	.99813	.2413	.56
%RSD	29.671	11.311	.51412	31.683	81.41	129.70	7.3740	.28158

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: sd 240-12817-B-3-C Acquired: 7/9/2012 14:09:38 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-89172	36.644	25.718	548.57	5.3320
Stddev	1.1211	.687	.013	4.63	3.1255
%RSD	125.72	1.8741	.05023	.84408	58.616

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8469.0	6649.5	70550.	10498.
Stddev	8.7	5.4	65.	115.
%RSD	.10327	.08165	.09164	1.0928

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.87%	108.45%	106.97%	106.35%
Range				

Sample Name: 240-12817-B-3-D MS Acquired: 7/9/2012 14:13:25 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.588	62929.	1682.2	818.75	1965.7	46.396	46638.
Stddev	.517	354.	1.1	1.29	7.0	.184	268.
%RSD	1.1873	.56205	.06415	.15745	.35578	.39644	.57429

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.66	519.69	282.54	252.44	100470.	47360.	898.44
Stddev	.30	.59	.17	.70	1035.	204.	1.73
%RSD	.7300	.11332	.05952	.27824	1.0303	.43007	.19204

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48296.	636.75	822.81	44054.	539.09	441.90	277.4
Stddev	140.	.85	.67	204.	.28	1.13	1.7
%RSD	.29071	.13366	.08100	.46248	.05159	.25483	.6258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12817-B-3-D MS Acquired: 7/9/2012 14:13:25 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1621.9	1924.3	2106.8	1869.2	645.96	619.54	5261.8
Stddev	1.8	3.2	2.8	2.3	4.89	1.71	19.9
%RSD	.11392	.16718	.13273	.12108	.75686	.27558	.37779

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	894.28
Stddev	7.66
%RSD	.85665

Check ?	Chk Pass
High Limit	
Low Limit	

Int., Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7728.5	7059.4	74815.	11108.
Stddev	47.5	42.1	168.	64.
%RSD	.61416	.59592	.22507	.57755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.703%	115.13%	113.44%	112.53%
Range				

Sample Name: 240-12817-B-3-E MSD Acquired: 7/9/2012 14:17:11 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.225	64499.	1756.9	861.99	2033.8	48.460	48566.	43.61	516.99
Stddev	.817	64.	6.6	4.27	1.7	.064	16.	.27	.94
%RSD	1.8075	.09857	.37318	.49510	.08475	.13117	.03247	.6109	.18219

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	262.01	267.28	90386.	48572.	941.68	50178.	785.35	866.58	46025.
Stddev	.76	.05	195.	85.	2.66	48.	.67	.79	89.
%RSD	.28824	.01751	.21550	.17457	.28294	.09576	.08571	.09065	.19403

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	532.03	458.14	281.3	1697.8	1901.6	2074.5	1856.0	615.90	616.10
Stddev	.35	1.43	1.5	3.7	1.0	.7	10.7	2.12	.55
%RSD	.06618	.31146	.5505	.21965	.05388	.03249	.57770	.34482	.08936

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12817-B-3-E MSD Acquired: 7/9/2012 14:17:11 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 ;
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4878.1	917.89
Stddev	17.2	4.15
%RSD	.35182	.45265

Check ? Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7962.7	6894.5	72686.	11013.
Stddev	12.1	16.7	201.	33.
%RSD	.15187	.24157	.27632	.30336

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 Value 98.603% 112.44% 110.21% 111.57%
 Range

Sample Name: CCV Acquired: 7/9/2012 14:20:50 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	995.31	25181.	496.12	4900.3	1968.1	2016.5	51080.	491.4	1941.9
Stddev	2.55	153.	1.57	6.8	8.9	8.9	321.	.8	6.9
%RSD	.25668	.60949	.31550	.13938	.45222	.43996	.62807	.1725	.35457

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1951.0	1924.6	25286.	49426.	4913.8	50635.	1927.4	1946.8	49665.
Stddev	3.1	1.8	49.	225.	16.2	162.	14.0	4.7	212.
%RSD	.15691	.09128	.19299	.45470	.33061	.32024	.72777	.24132	.42785

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1945.4	484.08	485.8	499.74	4986.3	4979.6	974.84	1973.9	1981.8
Stddev	7.3	1.64	1.2	1.13	24.8	44.7	3.44	13.8	5.0
%RSD	.37269	.33867	.2544	.22707	.49693	.89746	.35306	.70089	.25299

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/9/2012 14:20:50 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4906.5	4877.2
Stddev	6.8	35.7
%RSD	.13879	.73179

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7861.0	6255.0	65989.	9962.7
Stddev	18.0	20.6	236.	53.4
%RSD	.22916	.32981	.35776	.53605

Sample Name: CCB Acquired: 7/9/2012 14:24:45 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28921	14.367	-1.7527	4.9033	-.45559	-.01163	-4.2916	-.1721
Stddev	.22410	19.495	.9547	.7298	.22935	.03408	.7269	.0209
%RSD	77.485	135.69	54.475	14.883	50.340	293.08	16.939	12.14

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23091	-.03765	.39129	.66287	179.52	11.860	-7.2165	-.06536
Stddev	.05394	.07038	.05919	.43413	18.68	1.101	14.195	.02819
%RSD	23.360	186.94	15.127	65.492	10.408	9.2840	196.70	43.132

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03077	64.022	-.34288	-.44820	-.7453	.02438	.07419	-.05534
Stddev	.11996	9.788	.15536	.62194	1.784	.72990	.37858	.08166
%RSD	389.90	15.288	45.310	138.76	239.3	2994.3	510.28	147.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 14:24:45 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.20099	.19601	-.21474	4.1176	.70411
Stddev	.83275	.84102	.02723	2.0595	1.7374
%RSD	414.33	429.07	12.679	50.017	246.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8346.8	6369.1	67728.	9955.5
Stddev	40.3	37.2	93.	16.7
%RSD	.48305	.58449	.13790	.16745

Sample Name: pds 240-12817-B-3-C Acquired: 7/9/2012 14:28:35 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *not needed*

Elèm	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.522	45854.	285.51	2574.4	160.52	25.546	10716.
Stddev	.459	150.	1.76	3.9	.59	.107	26.
%RSD	.52432	.32739	.61553	.15054	.36705	.42075	.24454

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	298.9	179.07	263.09	439.51	111520.	7008.1	31.029
Stddev	.4	.22	.62	2.15	745.	9.3	.806
%RSD	.1442	.12149	.23413	.48854	.66783	.13245	2.5979

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5199.5	265.54	90.527	45108.	284.04	158.25	128.3
Stddev	20.2	.08	.220	123.	1.10	.87	.6
%RSD	.38841	.03074	.24316	.27161	.38658	.54904	.4387

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: pds 240-12817-B-3-C Acquired: 7/9/2012 14:28:35 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	343.86	314.40	1369.8	423.22	216.16	604.63	2489.0
Stddev	1.09	.49	2.8	1.19	.78	1.14	7.6
%RSD	.31655	.15498	.20619	.28062	.36022	.18854	.30544

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	22.304
Stddev	2.995
%RSD	13.430

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8280.0	7212.3	75457.	10755.
Stddev	9.4	6.4	92.	82.
%RSD	.11294	.08873	.12215	.76699

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.53%	117.63%	114.41%	108.95%
Range				

Sample Name: 240-12817-C-37-B Acquired: 7/9/2012 14:32:22 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25536	101250.	46.449	8.9466	350.92	5.3928	9177.4
Stddev	.16090	144.	1.754	.6887	.97	.0618	10.7
%RSD	63.010	.14231	3.7772	7.6978	.27554	1.1455	.11667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	<u>Cu3273</u>	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7765	31.797	172.51	66.821	163150.	3507.4	78.359
Stddev	.0766	.136	.37	.311	490.	31.3	.411
%RSD	9.864	.42760	.21263	.46489	.30023	.89355	.52448

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7974.4	439.35	5.5597	341.68	62.707	81.417	.3644
Stddev	23.9	.77	.1682	1.38	.008	1.141	2.355
%RSD	.29946	.17465	3.0261	.40379	.01314	1.4017	646.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12817-C-37-B Acquired: 7/9/2012 14:32:22 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.1152	15.858	1122.5	-2.4896	262.06	229.44	2612.5
Stddev	.8677	.293	1.7	.4975	3.60	.40	4.3
%RSD	14.190	1.8462	.15567	19.985	1.3729	.17472	.16572

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	55.249
Stddev	4.390
%RSD	7.9461

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8274.8	6846.4	71712.	10748.
Stddev	11.0	10.5	269.	70.
%RSD	.13319	.15340	.37555	.64869

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.47%	111.66%	108.73%	108.88%
Range				

Sample Name: 240-12837-D-1-B@5 Acquired: 7/9/2012 14:36:13 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	83357	10210.	23.576	45.502	88.860	24380	61191.
Stddev	.49460	94.	2.272	.135	.771	.03839	443.
%RSD	59.335	.92292	9.6352	.29578	.86804	15.748	.72392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.590	26.497	391.06	517.28	161110.	1150.1	24.581
Stddev	.141	.349	.05	1.48	775.	42.0	1.190
%RSD	2.527	1.3154	.01151	.28695	.48104	3.6499	4.8429

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2816	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8056.7	922.43	20.932	1531.6	672.13	2517.1	.0397
Stddev	55.4	3.18	.015	21.6	1.17	5.5	1.233
%RSD	.68821	.34433	.07334	1.4093	.17363	.21987	3106.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12837-D-1-B@5 Acquired: 7/9/2012 14:36:13 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.2288	16.999	130.75	3.9851	15.282	951.82	1308.6
Stddev	2.1559	.355	.60	.6461	2.747	2.10	2.8
%RSD	41.232	2.0896	.45784	16.213	17.977	.22108	.21322

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	105.24
Stddev	1.79
%RSD	1.6994

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8304.2	6403.2	67457.	10053.
Stddev	4.1	8.6	193.	52.
%RSD	.04931	.13473	.28549	.51247

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.83%	104.43%	102.28%	101.84%
Range				

Sample Name: 240-12866-C-17-B Acquired: 7/9/2012 14:40:06 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.7914	46797.	32.310	39.662	867.01	5.7823	84963.
Stddev	.4579	259.	1.810	.024	5.70	.0325	851.
%RSD	6.7424	.55367	5.6019	.05974	.65800	.56241	1.0020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.89	41.355	295.29	453.67	108430.	9263.9	45.195
Stddev	.13	.713	.41	1.55	863.	36.8	1.040
%RSD	.4032	1.7231	.13751	.34142	.79559	.39737	2.3005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36597.	2296.9	14.534	671.27	194.73	4315.0	59.19
Stddev	172.	5.2	.130	3.14	2.98	33.5	1.25
%RSD	.47109	.22661	.89227	.46814	1.5307	.77584	2.115

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12866-C-17-B Acquired: 7/9/2012 14:40:06 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.4842	34.607	1825.0	2.2627	319.16	4184.9	3489.6
Stddev	.6200	1.097	5.2	1.3179	1.80	59.3	6.8
%RSD	11.306	3.1701	.28694	58.245	.56472	1.4169	.19416

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	240.11
Stddev	1.34
%RSD	.55919

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8137.2	7027.4	73427.	11036.
Stddev	116.3	94.9	294.	71.
%RSD	1.4289	1.3509	.40029	.64521

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.76%	114.61%	111.33%	111.80%
Range				

Sample Name: 240-12866-A-20-B Acquired: 7/9/2012 14:44:14 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Repect and use 5x

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1510	33123.	15.872	.84651	165.82	11.634	1931.3
Stddev	.1932	66.	.361	.21484	.41	.042	3.5
%RSD	8.9809	.19862	2.2766	25.379	.24651	.36314	.17912

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1915	41.760	98.184	99.154	111310.	4390.6	32.179
Stddev	.0804	.066	.438	1.149	470.	41.0	.607
%RSD	41.98	.15686	.44615	1.1590	.42237	.93444	1.8871

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3024.8	233.85	1.9545	393.42	184.96	46.639	-1.906
Stddev	19.8	.43	.0681	5.18	.16	1.157	1.333
%RSD	.65349	.18330	3.4841	1.3178	.08788	2.4807	69.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12866-A-20-B Acquired: 7/9/2012 14:44:14 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3725	18.146	882.15	-9.5339	187.06	326.37	2311.3
Stddev	.1309	.127	3.38	1.9122	1.97	.46	11.1
%RSD	9.5355	.70129	.38274	20.057	1.0523	.14182	.47887

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	38.341
Stddev	2.120
%RSD	5.5297

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8461.7	W 9170.8	W 96672.	W 14423.
Stddev	16.0	23.2	393.	6.
%RSD	.18868	.25266	.40620	.03923

Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Warn
Value	104.78%	149.57%	146.58%	146.11%
Range		30.500%	30.500%	30.500%

Sample Name: 240-12866-A-20-B@5 Acquired: 7/9/2012 14:48:07 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *new matrix*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.5584	8829.4	3.1454	-4.9828	42.777	3.0196	496.30	-1.1574
Stddev	.32101	12.7	1.2633	.0170	.092	.0324	3.02	.0604
%RSD	70.422	.14355	40.163	.34129	.21407	1.0718	.60833	38.38

Check ?	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.6084	26.041	25.883	30138.	1258.1	15.785	803.18	61.813
Stddev	.1639	.262	1.008	53.	13.8	.839	6.71	.209
%RSD	1.9041	1.0065	3.8925	.17445	1.0953	5.3143	.83598	.33848

Check ?	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23055	140.49	37.309	12.514	-1.012	-1.18191	3.9908	227.69
Stddev	.09181	6.41	.166	1.077	1.784	1.1899	.1926	.81
%RSD	39.824	4.5661	.44542	8.6088	176.2	654.11	4.8265	.35551

Check ?	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12866-A-20-B@5 Acquired: 7/9/2012 14:48:07 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.9161	50.154	69.435	610.66	12.861
Stddev	.6223	.047	.216	5.23	.660
%RSD	32.477	.09310	.31159	.85620	5.1330

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8488.1	7055.8	74599.	10961.
Stddev	33.6	18.9	275.	60.
%RSD	.39602	.26758	.36904	.54506

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.11%	115.08%	113.11%	111.04%
Range				

Sample Name: CRIC Acquired: 7/9/2012 14:51:56 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

not needed

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.429	183.13	13.990	183.90	204.29	4.8696	5114.7
Stddev	.243	15.66	1.081	.24	.61	.0230	13.3
%RSD	2.3254	8.5510	7.7255	.12858	.30018	.47248	.25959

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.915	9.3883	9.2671	19.260	202.33	5101.5	F 11.148
Stddev	.144	.1028	.2046	.677	1.04	27.5	.650
%RSD	2.932	1.0953	2.2079	3.5151	.51569	.53989	5.8322

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							50.000
Range							-30.500%

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5236.6	14.709	38.895	5087.7	37.699	10.117	19.80
Stddev	12.5	.037	.270	8.7	.232	.502	1.55
%RSD	.23869	.24959	.69533	.17114	.61431	4.9630	7.854

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

nm
7-10-12

Sample Name: CRIO Acquired: 7/9/2012 14:51:56 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.245	97.454	49.566	18.435	9.3153	47.976	F 13.258
Stddev	2.517	.331	.215	.485	1.6711	.137	5.551
%RSD	13.081	.33919	.43303	2.6320	17.940	.28569	41.872

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							500.00
Range							-30.500%

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1.3895
Stddev	2.1764
%RSD	156.63

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8384.0	6397.3	67790.	9854.9
Stddev	35.7	32.3	195.	24.0
%RSD	.42592	.50496	.28738	.24377

Sample Name: MB 240-48896/1-A Acquired: 7/9/2012 14:55:42 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47224	-5.0549	-1.2953	-7.3864	.43112	-.13224	193.09
Stddev	.30864	18.028	.3339	.2158	.36523	.07404	1.82
%RSD	65.356	356.64	25.777	2.9209	84.717	55.988	.94092

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0741	-.01864	-.05852	1.7903	53.097	231.32	12.127
Stddev	.0563	.12139	.13522	.4915	2.190	19.49	.664
%RSD	75.94	651.20	231.08	27.457	4.1239	8.4241	5.4776

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58.558	.80598	-.07822	147.02	.31576	-.47592	-.8300
Stddev	2.501	.04190	.05065	8.87	.53568	.95871	.3659
%RSD	4.2716	5.1983	64.747	6.0309	169.65	201.45	44.09

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: MB 240-48896/1-A Acquired: 7/9/2012 14:55:42 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2596	30.814	-.06459	-.97768	-.36519	6.6863	12.993
Stddev	.4501	.595	.15365	.29097	1.5914	.0893	5.830
%RSD	35.735	1.9295	237.89	29.761	435.77	1.3351	44.871

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	F 7.3038
Stddev	2.6240
%RSD	35.926

Check ?	Chk Fail
High Limit	5.0000
Low Limit	-1000.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8406.7	6481.6	68296.	9953.1
Stddev	28.2	18.4	50.	59.0
%RSD	.33597	.28401	.07329	.59279

Sample Name: LCS 240-48896/2-A Acquired: 7/9/2012 14:59:30 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.057	2050.0	1981.5	984.62	2148.8	50.816	54668.	49.22	486.89
Stddev	.092	11.2	4.6	2.50	.6	.082	58.	.27	.31
%RSD	.17586	.54605	.23085	.25392	.02638	.16041	.10653	.5534	.06428

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	198.99	242.13	1079.0	52266.	1021.5	53828.	500.12	997.00	52326.
Stddev	.45	.78	2.5	37.	2.5	51.	.26	.34	131.
%RSD	.22552	.32032	.22813	.07037	.24171	.09438	.05280	.03390	.24954

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	488.99	486.10	503.9	1954.5	2047.2	1051.2	1913.6	509.35	500.42
Stddev	.21	.45	1.4	1.3	2.2	1.3	1.5	.70	.05
%RSD	.04241	.09223	.2786	.06816	.10853	.12573	.07974	.13672	.00943

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: LCS 240-48896/2-A Acquired: 7/9/2012 14:59:30 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	1031.7	997.62
Stddev	2.4	8.54
%RSD	.23158	.85627

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7920.1	6202.9	65845.	9860.6
Stddev	14.9	13.4	128.	16.1
%RSD	.18819	.21588	.19381	.16284

Sample Name: 240-12621-M-2-A Acquired: 7/9/2012 15:03:08 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	540.75	228150.	43.173	410.04	4562.0	22.345	154760.
Stddev	.91	1617.	2.282	18.10	37.0	.129	2300.
%RSD	.16836	.70895	5.2859	4.4136	.81109	.57782	1.4860

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	409.6	72.697	1123.9	19164.	198730.	6573.6	151.39
Stddev	24.2	5.445	.6	214.	562.	28.2	1.83
%RSD	5.900	7.4899	.05495	1.1192	.28292	.42875	1.2121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21980.	5490.7	202.03	3843.3	945.77	5038.2	144.2
Stddev	105.	31.0	13.77	16.4	66.73	252.3	9.1
%RSD	.47639	.56384	6.8153	.42557	7.0556	5.0069	6.324

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12621-M-2-A Acquired: 7/9/2012 15:03:08 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.819	892.46	2247.2	9.2071	214.93	F 14067.	9652.2
Stddev	3.435	69.91	4.9	1.2330	2.67	831.	17.1
%RSD	31.748	7.8339	.21762	13.392	1.2439	5.9059	.17763

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	818.82
Stddev	4.92
%RSD	.60054

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7973.4	6588.1	68783.	10473.
Stddev	13.4	26.4	318.	32.
%RSD	.16784	.40111	.46231	.30119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.735%	107.45%	104.29%	106.09%
Range				

Sample Name: CCV Acquired: 7/9/2012 15:07:36 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	989.85	25567.	495.19	4869.1	2000.0	2034.1	51982.	488.7	1938.9
Stddev	4.02	112.	1.67	3.0	5.4	4.7	233.	.5	1.7
%RSD	.40598	.43733	.33708	.06159	.26755	.22945	.44917	.1083	.08908

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1940.5	1915.0	25309.	49868.	4921.7	51220.	1907.7	1937.0	49926.
Stddev	2.7	2.4	75.	183.	9.8	346.	3.4	1.2	202.
%RSD	.13907	.12747	.29594	.36612	.19986	.67624	.18046	.05976	.40454

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1943.0	480.69	484.1	498.88	4981.5	4939.2	972.08	2007.6	1979.0
Stddev	.4	1.50	1.4	2.59	5.9	12.7	4.15	4.4	1.6
%RSD	.02175	.31119	.2793	.51907	.11754	.25759	.42714	.22044	.08053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/9/2012 15:07:36 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4893.8	4897.1
Stddev	21.2	27.7
%RSD	.43355	.56642

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7916.4	6306.1	66698.	9717.7
Stddev	15.8	9.0	158.	265.8
%RSD	.19989	.14292	.23740	2.7353

Sample Name: CCB Acquired: 7/9/2012 15:11:31 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37563	21.319	.12794	4.8427	-.76959	-.00086	-2.8144	-.2642
Stddev	.56180	18.549	.85719	.5335	.24109	.02371	1.8137	.0990
%RSD	149.56	87.005	669.97	11.018	31.327	2744.4	64.444	37.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06009	-.23250	.07218	1.2687	220.10	12.915	-12.219	-.00480
Stddev	.19306	.34982	.21086	.8583	38.26	1.250	1.441	.02460
%RSD	321.26	150.46	292.14	67.656	17.385	9.6808	11.789	512.98

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04603	68.298	-.21140	-.89978	1.119	.31333	.11707	.16896
Stddev	.07423	10.376	.11032	.70501	.643	1.7666	.48212	.18178
%RSD	161.25	15.192	52.184	78.354	57.49	563.82	411.83	107.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 15:11:31 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.32699	2.1291	-.14330	6.5552	5.8998
Stddev	.73254	.9441	.04256	7.6811	2.0808
%RSD	224.02	44.343	29.697	117.18	35.268

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8364.5	6386.6	67485.	9841.1
Stddev	32.3	27.2	97.	37.5
%RSD	.38572	.42551	.14313	.38136

Sample Name: sd 240-12621-M-2-A Acquired: 7/9/2012 15:15:20 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121.63	51374.	9.5066	94.078	1042.8	5.0288	36046.	96.13	16.921
Stddev	.79	92.	2.1605	.451	3.3	.0532	82.	.40	.053
%RSD	.64581	.17965	22.726	.47942	.31363	1.0583	.22649	.4120	.31417

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	259.21	4315.8	46623.	1640.3	43.849	5118.0	1292.5	48.212	901.00
Stddev	.02	7.9	55.	22.2	.209	7.1	3.4	.075	7.18
%RSD	.00832	.18277	.11763	1.3507	.47673	.13922	.26638	.15544	.79663

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	218.43	1171.2	34.28	2.5267	205.89	506.78	2.8529	49.975	3323.1
Stddev	.90	1.9	2.39	1.1138	.24	1.02	.6909	.903	6.4
%RSD	.41361	.16068	6.980	44.082	.11555	.20216	24.219	1.8077	.19177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: sd 240-12621-M-2-A Acquired: 7/9/2012 15:15:20 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	2197.4	187.26
Stddev	11.1	3.24
%RSD	.50561	1.7320

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8317.7	6488.2	67872.	10098.
Stddev	5.0	5.0	330.	33.
%RSD	.06054	.07698	.48646	.32997

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.00%	105.82%	102.91%	102.29%
Range				

Sample Name: 240-12621-M-2-B DU Acquired: 7/9/2012 15:19:03 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	161.44	88093.	45.703	77.256	1089.7	16.228	31479.
Stddev	.33	750.	1.597	.216	8.6	.128	279.
%RSD	.20494	.85102	3.4951	.27971	.78771	.78910	.88682

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	114.0	217.85	420.82	2666.9	283160.	5118.8	38.464
Stddev	.2	.60	.94	6.2	2739.	15.5	.723
%RSD	.1620	.27468	.22380	.23384	.96712	.30306	1.8786

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6162.2	2470.7	34.825	968.35	492.14	2361.6	50.14
Stddev	31.3	9.9	.124	13.25	1.34	.4	2.56
%RSD	.50854	.40055	.35521	1.3682	.27150	.01646	5.100

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12621-M-2-B DU Acquired: 7/9/2012 15:19:03 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.9335	217.73	2103.0	4.5752	590.58	4243.3	4352.5
Stddev	.9605	.78	3.3	1.1000	3.80	11.2	22.1
%RSD	16.187	.35866	.15758	24.042	.64329	.26444	.50782

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	186.66
Stddev	3.66
%RSD	1.9625

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8327.8	7355.0	76613.	11013.
Stddev	18.1	18.2	738.	34.
%RSD	.21713	.24731	.96297	.30859

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.12%	119.96%	116.16%	111.56%
Range				

Sample Name: 240-12621-M-2-C MS Acquired: 7/9/2012 15:23:00 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 ;
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	242.93	124440.	1708.5	1001.6	3905.7	60.356	88121.
Stddev	.65	533.	36.0	16.2	36.3	.182	389.
%RSD	.26840	.42795	2.1100	1.6157	.93005	.30230	.44096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PPS not needed - parent is Diluted out (4)

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	191.6	702.20	671.06	4131.4	272620.	51766.	948.66
Stddev	4.3	25.69	.19	6.5	1842.	189.	5.97
%RSD	2.248	3.6584	.02838	.15666	.67564	.36492	.62970

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53797.	3849.2	871.92	48505.	1089.2	2387.4	336.4
Stddev	97.	13.4	28.24	168.	40.8	47.9	9.1
%RSD	.17968	.34848	3.2391	.34696	3.7449	2.0067	2.694

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12621-M-2-C MS Acquired: 7/9/2012 15:23:00 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1602.3	2158.6	3392.9	1808.9	997.04	6393.7	11032.
Stddev	29.4	86.3	25.4	35.4	7.02	197.5	30.
%RSD	1.8368	3.9983	.74974	1.9558	.70449	3.0887	.26800

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1131.1
Stddev	4.8
%RSD	.42481

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7854.2	6993.7	73469.	11164.
Stddev	6.1	32.5	217.	51.
%RSD	.07723	.46468	.29569	.45569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.260%	114.06%	111.40%	113.10%
Range				

Sample Name: pds 240-12621-M-2-A Acquired: 7/9/2012 15:27:20 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

not needed

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	635.36	229940.	317.76	3165.3	4532.1	46.190	164160.
Stddev	2.04	272.	13.86	105.8	56.3	.050	876.
%RSD	.32060	.11846	4.3626	3.3439	1.2419	.10736	.53338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Spike is Diluted out - will show as N/A

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	720.5	211.71	1298.1	19308.	199440.	11436.	148.60
Stddev	34.1	13.31	2.2	126.	3532.	56.	.55
%RSD	4.737	6.2880	.17173	.65120	1.7708	.49109	.36795

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24452.	5379.2	289.15	52516.	1175.6	5090.4	281.8
Stddev	69.	45.8	16.05	81.	72.4	219.4	13.2
%RSD	.28112	.85104	5.5506	.15517	6.1583	4.3109	4.696

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: pds 240-12621-M-2-A Acquired: 7/9/2012 15:27:20 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	376.04	1184.0	2722.6	428.67	263.34	F 14518.	9646.3
Stddev	14.94	78.4	13.3	11.51	.57	773.	6.7
%RSD	3.9735	6.6219	.48690	2.6855	.21822	5.3214	.06984

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	798.96
Stddev	.76
%RSD	.09453

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7881.6	6578.5	68596.	10570.
Stddev	6.1	34.1	219.	49.
%RSD	.07750	.51836	.31914	.46739

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.599%	107.29%	104.01%	107.07%
Range				

Sample Name: 240-12621-E-1-A@5 Acquired: 7/9/2012 15:31:46 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS*Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.379	73348.	20.161	245.58	1395.5	.56564	51098.
Stddev	.709	987.	.474	.02	13.1	.04311	667.
%RSD	.72823	1.3452	2.3524	.00723	.94014	7.6217	1.3048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	269.9	38.044	2677.1	4273.9	120570.	1949.7	22.839
Stddev	1.1	.504	15.2	33.4	474.	41.9	.534
%RSD	.4193	1.3260	.56948	.78226	.39338	2.1500	2.3382

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7177.7	2708.4	139.43	1522.7	294.87	3784.0	66.56
Stddev	68.2	46.3	.78	16.3	2.01	10.2	.62
%RSD	.94984	1.7095	.55931	1.0680	.68306	.26834	.9361

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12621-E-1-A@5 Acquired: 7/9/2012 15:31:46 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.4540	494.86	998.68	7.2108	87.391	F 18305.	2930.2
Stddev	2.2293	5.18	6.34	1.3663	2.018	206.	21.4
%RSD	50.051	1.0473	.63521	18.948	2.3093	1.1252	.73070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	274.65
Stddev	6.77
%RSD	2.4655

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8417.5	6561.4	66838.	9869.0
Stddev	28.5	24.6	1003.	107.1
%RSD	.33872	.37485	1.5011	1.0857

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.23%	107.01%	101.34%	99.974%
Range				

Sample Name: 240-12540-E-1-A Acquired: 7/9/2012 15:35:55 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.8023	70710.	38.705	69.904	307.21	4.9774	19970.
Stddev	.3106	92.	.437	.451	.69	.0392	30.
%RSD	6.4673	.12947	1.1279	.64477	.22374	.78752	.15077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 3472.	33.326	448.46	96.514	145130.	14620.	126.22
Stddev	1.	.071	.73	.285	1537.	20.	.88
%RSD	.0415	.21409	.16199	.29581	1.0591	.14019	.69639

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.						
Low Limit	-500000.						

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20377.	2000.5	3.5496	5424.8	118.94	152.82	3.760
Stddev	46.	1.5	.2236	13.5	.27	.84	1.641
%RSD	.22436	.07496	6.3009	.24924	.22769	.54985	43.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12540-E-1-A Acquired: 7/9/2012 15:35:55 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2788	17.496	841.52	4.6883	193.11	4410.2	3013.3
Stddev	1.9951	.176	1.38	2.3354	1.46	10.5	10.8
%RSD	87.552	1.0083	.16430	49.813	.75815	.23728	.35941

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	203.88
Stddev	1.76
%RSD	.86099

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8392.0	7175.9	74719.	11238.
Stddev	4.7	7.1	179.	17.
%RSD	.05577	.09866	.23936	.14721

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.92%	117.03%	113.29%	113.84%
Range				

Sample Name: 240-12540-E-2-A Acquired: 7/9/2012 15:39:54 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.847	63657.	48.353	53.599	889.34	5.6415	8263.5
Stddev	.133	223.	1.011	.247	4.79	.0373	31.2
%RSD	.89714	.34982	2.0908	.46129	.53857	.66109	.37733

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.58	97.017	3694.9	495.89	141420.	9178.0	100.32
Stddev	.28	.956	8.7	2.10	715.	16.9	1.63
%RSD	1.104	.98515	.23449	.42401	.50526	.18467	1.6269

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13335.	2212.0	41.613	2181.3	177.02	837.53	3.842
Stddev	10.	15.0	.390	4.1	1.75	3.82	.673
%RSD	.07759	.67980	.93682	.18989	.98947	.45611	17.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12540-E-2-A Acquired: 7/9/2012 15:39:54 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6476	56.096	654.83	2.9796	278.67	F 15730.	2421.6
Stddev	1.3343	1.388	1.58	.9642	1.90	93.	3.7
%RSD	36.581	2.4750	.24199	32.359	.68358	.59152	.15363

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	98.020
Stddev	3.522
%RSD	3.5930

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8350.4	7627.4	80313.	11994.
Stddev	16.2	28.5	256.	2.
%RSD	.19366	.37325	.31904	.01725

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.40%	124.40%	121.77%	121.50%
Range				

Sample Name: 240-12540-E-3-A@20 Acquired: 7/9/2012 15:44:01 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment: *Ncm matrix*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.88633	1246.2	-5.6682	-3.2044	5110.7	-.02181	2653.3
Stddev	.31848	18.1	2.2743	.2862	42.2	.06884	6.8
%RSD	35.933	1.4493	40.123	8.9325	.82564	315.62	.25686

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.948	32.344	13884.	9.5740	2348.6	3725.9	14.350
Stddev	.106	.722	209.	.3095	4.0	22.2	1.017
%RSD	2.132	2.2327	1.5023	3.2333	.17112	.59669	7.0866

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2951.8	73.913	.75798	113.80	13.021	2589.5	.0852
Stddev	12.1	.059	.20114	11.86	.255	28.8	1.441
%RSD	.40988	.08043	26.536	10.422	1.9592	1.1130	1692.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12540-E-3-A@20 Acquired: 7/9/2012 15:44:01 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2877	.48667	290.83	2.8986	26.766	F 34350.	154.52
Stddev	.4308	.31913	.45	1.2111	.824	165.	3.39
%RSD	33.453	65.575	.15475	41.783	3.0800	.48085	2.1951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	68.409
Stddev	1.854
%RSD	2.7097

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8584.9	6623.0	68353.	9915.2
Stddev	6.5	3.0	856.	53.4
%RSD	.07607	.04510	1.2524	.53846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	106.31%	108.02%	103.64%	100.44%
Range				

Sample Name: 240-12540-E-3-A@100 Acquired: 7/9/2012 15:48:13 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *not needed*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.63335	239.44	-2.7792	-6.3007	1044.1	-.11292	514.36	.9199
Stddev	.35509	14.05	1.0433	.1951	1.0	.03518	2.93	.1380
%RSD	56.066	5.8675	37.541	3.0966	.09964	31.157	.56930	15.00

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.6252	2849.8	1.7165	471.92	875.86	12.842	591.38	14.943
Stddev	.1623	28.4	.6674	2.45	34.23	1.632	5.26	.172
%RSD	2.4500	.99601	38.883	.52002	3.9078	12.708	.88970	1.1509

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16030	67.181	2.0912	516.13	-.6446	1.1053	.19338	58.375
Stddev	.18084	7.291	.1872	.50	.7260	1.1347	.26883	.488
%RSD	112.81	10.852	8.9523	.09766	112.6	102.66	139.01	.83602

Check ?	High Limit	Low Limit
Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12540-E-3-A@100 Acquired: 7/9/2012 15:48:13 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2739	6.2053	7526.9	35.604	13.535
Stddev	.5707	.9003	7.8	3.720	2.625
%RSD	44.800	14.509	.10398	10.448	19.392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8537.8	6560.1	69053.	10122.
Stddev	30.0	22.1	634.	7.
%RSD	.35131	.33681	.91821	.06579

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.72%	106.99%	104.70%	102.54%
Range				

Sample Name: 240-12540-E-4-A Acquired: 7/9/2012 15:52:00 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08783	63198.	25.766	1.1471	257.00	2.3143	4815.1	.4539
Stddev	.11912	382.	.249	.2032	1.18	.0364	24.6	.0588
%RSD	135.62	.60506	.96764	17.717	.45884	1.5726	.51190	12.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	<u>Cu3273</u>	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.797	85.164	38.903	79668.	2958.5	51.200	6174.8	333.64
Stddev	.309	.220	.243	138.	55.1	.752	13.4	.31
%RSD	1.1549	.25860	.62410	.17356	1.8630	1.4684	.21636	.09437

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0729	375.87	44.079	48.663	.1293	3.1715	10.441	940.30
Stddev	.0909	3.42	.410	.625	.4939	.4340	.057	.55
%RSD	2.9580	.91112	.93007	1.2836	382.0	13.686	.54716	.05819

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12540-E-4-A Acquired: 7/9/2012 15:52:00 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.9931	143.33	163.51	2084.0	37.461
Stddev	.4646	1.31	.26	4.7	6.066
%RSD	23.309	.91228	.15606	.22570	16.193

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8431.2	6871.1	72113.	10610.
Stddev	16.2	3.1	128.	51.
%RSD	.19223	.04441	.17742	.47931

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.40%	112.06%	109.34%	107.48%
Range				

Sample Name: CCV Acquired: 7/9/2012 15:55:46 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	993.15	25547.	495.73	4855.8	1997.2	2030.4	51868.	487.5	1941.3
Stddev	1.10	74.	.88	2.2	2.8	3.8	128.	.8	3.8
%RSD	.11046	.29005	.17674	.04555	.14191	.18869	.24704	.1545	.19810

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1946.9	1918.7	25217.	49644.	4906.2	51087.	1911.1	1937.3	49756.
Stddev	.6	.7	68.	103.	16.8	180.	12.8	4.6	151.
%RSD	.03145	.03439	.26987	.20720	.34329	.35275	.67151	.23581	.30273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1947.1	482.77	481.5	498.30	4994.6	4958.1	968.54	2006.2	1985.3
Stddev	4.9	.47	2.0	1.63	19.1	31.8	1.79	6.4	4.0
%RSD	.25357	.09805	.4251	.32693	.38146	.64083	.18467	.31753	.20345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/9/2012 15:55:46 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem.	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4856.7	4887.9
Stddev	27.6	17.7
%RSD	.56760	.36157

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7801.4	6216.5	65688.	9785.4
Stddev	24.7	15.9	10.	55.1
%RSD	.31604	.25584	.01480	.56347

Sample Name: CCB Acquired: 7/9/2012 15:59:41 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 ;
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.57148	34.340	-1.0965	4.0839	-1.0339	-.01560	1.1800	-.1729
Stddev	.12570	10.066	1.6652	.9329	.1271	.08204	.7119	.0860
%RSD	21.996	29.313	151.86	22.843	12.290	525.87	60.329	49.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29003	.03617	.10827	1.2021	203.60	12.679	-7.0994	.01957
Stddev	.16111	.22621	.29246	.3868	40.30	.723	5.6655	.01820
%RSD	55.550	625.32	270.13	32.175	19.792	5.7021	79.803	93.045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27851	60.136	-.23668	-.68590	.1150	-2.1706	.03461	.04016
Stddev	.21294	15.002	.06719	.66578	2.562	1.0341	.39896	.31993
%RSD	76.458	24.947	28.389	97.067	2228.	47.641	1152.8	796.65

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 15:59:41 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref.	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.51171	.81159	-.15863	2.8666	4.0927
Stddev	.80218	2.0972	.07751	2.8427	4.0857
%RSD	156.76	258.40	48.865	99.166	99.830

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8466.2	6467.3	68777.	9936.4
Stddev	10.9	9.8	100.	89.6
%RSD	.12884	.15181	.14471	.90213

Sample Name: 240-12596-E-2-A Acquired: 7/9/2012 16:03:31 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.1887	70939.	34.802	42.594	494.76	5.4676	62254.
Stddev	.2135	319.	.343	.326	1.72	.0434	321.
%RSD	9.7522	.44967	.98439	.76645	.34807	.79391	.51640

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.896	45.117	166.91	124.69	113280.	7465.2	89.184
Stddev	.103	.133	.41	.42	1509.	56.4	.533
%RSD	5.431	.29489	.24792	.33662	1.3321	.75584	.59751

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27984.	2305.1	5.6039	1643.6	86.963	182.93	-1.253
Stddev	84.	20.1	.1760	10.0	.178	1.40	1.340
%RSD	.29920	.87149	3.1409	.60776	.20459	.76533	106.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-E-2-A Acquired: 7/9/2012 16:03:31 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.8506	27.884	1010.2	3.0397	277.40	465.52	5293.6
Stddev	1.1005	.308	3.0	.5069	3.11	.91	9.9
%RSD	22.688	1.1047	.29963	16.676	1.1204	.19452	.18639

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	137.77
Stddev	1.69
%RSD	1.2265

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8116.8	7133.1	75868.	11407.
Stddev	19.4	15.8	127.	31.
%RSD	.23858	.22203	.16737	.27301

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.51%	116.34%	115.03%	115.56%
Range				

Sample Name: 240-12596-E-3-A Acquired: 7/9/2012 16:07:31 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0745	51324.	24.712	31.437	496.09	3.7910	26514.
Stddev	.1746	189.	2.366	.253	.94	.0452	90.
%RSD	4.2858	.36902	9.5761	.80518	.18981	1.1918	.34022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.45	32.093	289.72	337.39	101060.	5500.0	62.470
Stddev	.17	.374	.57	1.10	958.	23.5	1.885
%RSD	.9727	1.1646	.19702	.32715	.94824	.42645	3.0173

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11491.	1402.7	13.654	1597.6	91.728	575.28	6.810
Stddev	12.	11.0	.088	6.4	.921	2.49	.670
%RSD	.10609	.78215	.64241	.40118	1.0039	.43260	9.844

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-E-3-A Acquired: 7/9/2012 16:07:31 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3572	34.046	863.23	1.4212	240.21	1094.4	3307.7
Stddev	1.6363	.126	2.09	.9265	1.86	4.9	2.9
%RSD	69.416	.37091	.24261	65.189	.77250	.44915	.08719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	125.61
Stddev	3.32
%RSD	2.6404

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8460.3	7119.0	74742.	11081.
Stddev	13.5	10.9	278.	22.
%RSD	.15975	.15334	.37238	.19680

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.76%	116.11%	113.33%	112.25%
Range				

Sample Name: 240-12596-E-4-A Acquired: 7/9/2012 16:11:32 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0592	123920.	44.015	18.662	674.50	4.2364	3424.3
Stddev	.2196	473.	1.557	.310	1.36	.0495	9.1
%RSD	10.666	.38177	3.5374	1.6624	.20229	1.1675	.26584

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.60	40.403	1376.2	416.62	130030.	8267.1	103.23
Stddev	.04	.066	1.1	.27	1057.	38.6	1.48
%RSD	.1359	.16393	.07936	.06449	.81282	.46748	1.4315

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13982.	703.67	8.6308	1018.7	93.579	8856.5	8.332
Stddev	32.	.74	.1249	8.2	.269	2.2	.811
%RSD	.22752	.10573	1.4473	.80344	.28795	.02531	9.731

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-E-4-A Acquired: 7/9/2012 16:11:32 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.9788	68.716	1604.6	-.72284	241.94	5553.2	2345.3
Stddev	.8290	.111	1.4	1.3199	.98	7.0	5.0
%RSD	20.836	.16183	.08606	182.59	.40374	.12520	.21375

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	59.618
Stddev	1.857
%RSD	3.1153

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8389.6	7087.2	73548.	10963.
Stddev	13.5	10.8	227.	35.
%RSD	.16064	.15305	.30828	.31724

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.89%	115.59%	111.52%	111.06%
Range				

Sample Name: 240-12596-J-5-B Acquired: 7/9/2012 16:15:21 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.193	37642.	24.421	6.8033	192.36	5.9626	8614.3
Stddev	.195	182.	.460	.2183	.72	.0234	44.7
%RSD	1.2053	.48326	1.8856	3.2085	.37307	.39202	.51947

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.198	23.563	498.32	302.19	174010.	3661.4	43.675
Stddev	.047	.362	.81	.32	837.	13.0	.496
%RSD	1.127	1.5378	.16182	.10530	.48103	.35570	1.1363

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4807.8	421.09	5.3544	352.66	68.467	360.24	7.488
Stddev	21.7	.83	.2017	5.17	.310	1.06	3.122
%RSD	.45040	.19609	3.7664	1.4646	.45301	.29497	41.70

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-J-5-B Acquired: 7/9/2012 16:15:21 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.9129	30.354	724.89	.21696	244.86	2265.8	1790.0
Stddev	1.0133	.649	1.16	.53649	1.26	2.0	7.1
%RSD	34.787	2.1374	.16061	247.27	.51366	.08973	.39704

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	44.040
Stddev	2.598
%RSD	5.8998

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8449.9	7090.0	74588.	11003.
Stddev	4.8	6.1	136.	45.
%RSD	.05734	.08653	.18174	.40655

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.64%	115.63%	113.09%	111.46%
Range				

Sample Name: 240-12596-E-6-A Acquired: 7/9/2012 16:19:15 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.176	40045.	42.735	19.343	257.17	2.7865	62932.
Stddev	.223	102.	1.415	.056	.52	.0197	203.
%RSD	1.6922	.25501	3.3115	.29170	.20282	.70821	.32254

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.02	50.353	187.77	157.71	100670.	4178.2	41.280
Stddev	.12	.195	.31	.61	1007.	41.5	2.460
%RSD	.9580	.38765	.16745	.38972	1.0004	.99318	5.9595

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42906.	1102.5	3.7368	371.44	268.66	175.73	1.743
Stddev	171.	.6	.1302	6.63	.55	1.13	.493
%RSD	.39787	.05706	3.4854	1.7848	.20628	.64040	28.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12596-E-6-A Acquired: 7/9/2012 16:19:15 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3124	19.510	709.59	1.2042	214.41	407.29	2653.5
Stddev	1.5167	.520	.71	.8721	.55	.12	6.0
%RSD	115.57	2.6654	.09994	72.417	.25835	.02838	.22621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	85.067
Stddev	2.032
%RSD	2.3884

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8183.8	6821.0	71947.	10610.
Stddev	35.8	31.3	285.	85.
%RSD	.43701	.45917	.39547	.79999

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.34%	111.24%	109.09%	107.48%
Range				

nm
7-10-12

Sample Name: CRIO Acquired: 7/9/2012 16:23:10 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: 6010C

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.9363	212.77	12.055	183.50	205.95	4.8820	5149.4
Stddev	.4460	4.30	.406	.46	.49	.0247	15.5
%RSD	4.4881	2.0204	3.3675	.24995	.23614	.50621	.30030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.590	9.3877	9.6221	18.058	207.07	5081.9	F 12.102
Stddev	.131	.1541	.2688	1.260	3.12	56.3	.825
%RSD	2.847	1.6414	2.7940	6.9746	1.5080	1.1085	6.8199

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							50.000
Range							-30.500%

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5262.8	14.685	38.974	5109.0	37.388	8.4625	19.46
Stddev	4.1	.019	.156	6.6	.227	.8998	1.42
%RSD	.07748	.12776	.39925	.12899	.60701	10.633	7.309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

7/9/12

Sample Name: CRIC Acquired: 7/9/2012 16:23:10 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.426	96.935	49.025	19.204	10.443	47.451	F 10.962
Stddev	1.154	.373	.226	1.087	.873	.077	4.474
%RSD	5.9399	.38463	.46132	5.6610	8.3572	.16126	40.811

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							500.00
Range							-30.500%

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1.8222
Stddev	2.8785
%RSD	157.97

Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8621.9	6584.0	67618.	9784.7
Stddev	51.7	45.1	386.	19.4
%RSD	.60002	.68466	.57015	.19784

Sample Name: 240-12942-B-3-B Acquired: 7/9/2012 16:26:57 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.59314	80392.	241.06	3.9368	771.83	5.5044	8259.3
Stddev	.48064	296.	.46	.2283	2.16	.0527	29.2
%RSD	81.033	.36758	.19263	5.7987	.27949	.95674	.35321

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.940	87.952	117.90	189.83	394430.	4922.8	84.792
Stddev	.053	.070	.13	.19	2421.	29.8	1.619
%RSD	1.798	.07952	.11436	.10226	.61384	.60602	1.9097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18070.	9187.9	25.972	311.88	213.39	181.94	2.742
Stddev	55.	97.9	.180	5.20	.65	.97	.196
%RSD	.30204	1.0657	.69446	1.6657	.30687	.53055	7.133

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-3-B Acquired: 7/9/2012 16:26:57 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.8601	18.673	824.92	20.213	184.32	892.09	2004.7
Stddev	2.9588	.882	.43	.388	4.11	2.01	6.0
%RSD	33.395	4.7208	.05265	1.9214	2.2285	.22525	.29757

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	58.215
Stddev	5.201
%RSD	8.9340

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8424.4	7499.4	78165.	11741.
Stddev	5.9	2.4	53.	58.
%RSD	.06966	.03253	.06810	.49609

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.32%	122.31%	118.52%	118.94%
Range				

Sample Name: 240-12942-B-4-B Acquired: 7/9/2012 16:30:54 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	85766	71370	128.62	7.9697	756.44	5.2904	13226.
Stddev	.19618	179.	2.42	.3420	2.13	.0413	27.
%RSD	22.873	.25127	1.8852	4.2913	.28218	.78119	.20712

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.958	74.621	114.86	215.52	274640.	4529.3	71.760
Stddev	.086	.194	.52	.96	2789.	36.9	1.876
%RSD	2.176	.26002	.45510	.44594	1.0155	.81507	2.6137

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14343.	7143.0	31.189	296.13	183.05	996.42	1.852
Stddev	36.	44.1	.088	3.40	.89	.96	.218
%RSD	.25277	.61682	.28221	1.1493	.48889	.09600	11.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-4-B Acquired: 7/9/2012 16:30:54 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
IS Ref							
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.0705	126.43	1002.8	16.404	160.50	1396.8	2325.8
Stddev	1.6836	.56	.8	.769	.63	2.1	11.0
%RSD	27.734	.44501	.07549	4.6874	.38959	.15078	.47181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
IS Ref	
Units	ppb
Avg	88.429
Stddev	2.515
%RSD	2.8440

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8353.8	7574.3	79755.	11822.
Stddev	17.7	15.9	190.	33.
%RSD	.21240	.21007	.23862	.28333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.45%	123.53%	120.93%	119.76%
Range				

Sample Name: 240-12942-B-5-B Acquired: 7/9/2012 16:34:52 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-50807	115440.	186.59	7.0158	730.32	4.7396	9598.4
Stddev	.30371	127.	2.12	.1785	1.92	.0457	11.3
%RSD	59.777	.10974	1.1365	2.5448	.26307	.96372	.11824

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.760	108.72	141.57	138.65	234350.	5792.3	108.45
Stddev	.216	.14	.91	.56	922.	23.4	.39
%RSD	12.27	.13023	.64296	.40259	.39338	.40334	.36268

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21659.	6482.5	27.789	308.93	190.49	197.03	2.071
Stddev	37.	59.1	.227	4.20	.77	.43	1.109
%RSD	.17222	.91178	.81743	1.3597	.40297	.21739	53.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-5-B Acquired: 7/9/2012 16:34:52 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.6312	20.839	1421.3	12.933	240.03	759.09	2306.9
Stddev	1.5064	.810	4.0	2.163	.98	.86	21.6
%RSD	26.751	3.8873	.27858	16.724	.40846	.11314	.93732

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	72.304
Stddev	1.595
%RSD	2.2065

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8159.5	7149.8	74786.	10978.
Stddev	16.3	17.3	478.	28.
%RSD	.20025	.24166	.63944	.25895

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	116.61%	113.39%	111.21%
Range				

Sample Name: 240-12942-B-6-B Acquired: 7/9/2012 16:38:49 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0852	72268.	141.58	5.5912	569.13	4.8339	6228.5
Stddev	.2018	219.	.80	.2215	2.48	.0452	21.1
%RSD	18.596	.30349	.56775	3.9612	.43600	.93495	.33903

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.898	83.050	132.37	181.86	326440.	5380.8	68.665
Stddev	.155	.313	.37	.21	2605.	45.4	.416
%RSD	8.170	.37689	.28106	.11720	.79813	.84356	.60624

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15847.	8230.6	25.272	288.93	192.43	113.50	1.517
Stddev	57.	44.6	.057	7.80	.56	1.53	1.436
%RSD	.35854	.54213	.22370	2.7005	.29293	1.3474	94.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-6-B Acquired: 7/9/2012 16:38:49 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.8833	17.048	779.99	20.387	208.18	839.12	1909.4
Stddev	1.5908	.283	1.38	1.085	1.58	1.89	.7
%RSD	23.112	1.6602	.17683	5.3221	.75906	.22507	.03526

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	61.105
Stddev	3.545
%RSD	5.8017

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8464.3	7714.4	80273.	12025.
Stddev	10.3	16.1	29.	70.
%RSD	.12157	.20858	.03605	.57994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.81%	125.82%	121.71%	121.81%
Range				

Sample Name: CCV Acquired: 7/9/2012 16:42:48 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	991.56	25409.	489.35	4834.6	1993.5	2019.5	51594.	485.5	1934.5
Stddev	3.73	86.	.56	9.5	8.1	6.3	168.	.8	3.6
%RSD	.37607	.33834	.11422	.19548	.40756	.31243	.32466	.1638	.18617

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1929.9	1905.4	25071.	49279.	4865.4	50619.	1896.0	1936.9	49336.
Stddev	4.4	3.0	48.	155.	11.5	120.	10.0	3.0	161.
%RSD	.22691	.15534	.19020	.31469	.23724	.23690	.52946	.15692	.32719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1939.6	479.64	479.8	499.10	4973.3	4929.7	957.94	2001.5	1966.4
Stddev	2.4	1.03	1.8	1.25	8.0	19.3	4.95	9.1	1.8
%RSD	.12256	.21377	.3784	.24967	.16103	.39170	.51669	.45479	.08963

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/9/2012 16:42:48 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4827.6	4856.9
Stddev	15.9	14.4
%RSD	.32875	.29738

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7953.4	6338.1	66808.	10017.
Stddev	13.2	9.2	90.	28.
%RSD	.16605	.14500	.13473	.27854

Sample Name: CCB Acquired: 7/9/2012 16:46:43 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.68042	6.2616	-2.3523	3.5046	-.91181	-.07745	-4.1760	.0047
Stddev	.26588	18.594	1.0527	.7638	.03276	.04057	2.1810	.1477
%RSD	39.076	296.95	44.752	21.793	3.5934	52.385	52.227	3144.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16576	-.04085	.16276	.05522	175.94	13.400	-6.3684	-.04848
Stddev	.12095	.51318	.39071	.93598	60.10	.958	11.925	.03655
%RSD	72.968	1256.1	240.06	1695.1	34.157	7.1485	187.26	75.399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16406	58.045	-.34233	.27958	-.7563	-.36914	-.11088	-.24331
Stddev	.07221	9.245	.32256	.77955	1.725	.88790	.29273	.16757
%RSD	44.015	15.927	94.227	278.83	228.0	240.53	264.00	68.870

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 16:46:43 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.22754	-2.1549	-.19746	7.7105	8.8100
Stddev	1.3150	1.7453	.03988	2.6679	4.0371
%RSD	577.90	80.993	20.198	34.600	45.824

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8457.1	6453.4	68560.	9961.4
Stddev	23.6	16.4	231.	34.7
%RSD	.27883	.25370	.33754	.34866

Sample Name: 240-12942-B-7-B Acquired: 7/9/2012 16:50:33 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4225	95565.	111.44	5.5573	1937.0	6.3262	11261.
Stddev	.1686	179.	.97	.6662	.4	.0256	11.
%RSD	11.850	.18723	.87148	11.987	.02217	.40433	.09825

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.404	116.43	161.34	136.04	243290.	4655.1	85.441
Stddev	.122	.10	.31	.93	1571.	18.9	1.764
%RSD	3.579	.09011	.19040	.68004	.64570	.40631	2.0644

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15972.	14360.	23.172	297.00	261.29	194.52	2.214
Stddev	29.	35.	.164	4.26	.59	1.62	.065
%RSD	.18200	.24539	.70670	1.4337	.22460	.83204	2.925

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-7-B Acquired: 7/9/2012 16:50:33 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.4544	22.791	1210.0	33.916	206.57	808.64	2403.2
Stddev	1.8753	.855	1.9	1.162	.54	3.59	7.6
%RSD	22.182	3.7499	.15600	3.4247	.26121	.44335	.31608

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	69.633
Stddev	2.160
%RSD	3.1012

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8286.2	7570.1	79519.	11242.
Stddev	26.9	38.4	77.	15.
%RSD	.32509	.50761	.09637	.13547

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.61%	123.46%	120.57%	113.88%
Range				

Sample Name: 240-12942-B-8-B Acquired: 7/9/2012 16:54:30 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17940	113600.	167.22	7.8833	953.97	6.7496	15942.
Stddev	.32850	1385.	1.53	.4582	11.79	.0675	199.
%RSD	183.11	1.2192	.91667	5.8121	1.2357	.99989	1.2464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.180	106.38	208.22	165.77	334550.	5163.7	90.746
Stddev	.203	.40	.51	.69	5579.	64.2	.444
%RSD	6.385	.37830	.24308	.41675	1.6675	1.2434	.48939

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20185.	7004.5	24.602	337.71	292.25	140.04	2.229
Stddev	265.	13.7	.072	6.05	.45	1.00	1.063
%RSD	1.3118	.19501	.29454	1.7910	.15558	.71263	47.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-8-B Acquired: 7/9/2012 16:54:30 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.1790	16.400	1251.4	16.280	259.57	819.72	2091.7
Stddev	1.5832	.555	3.0	1.105	7.17	1.71	17.1
%RSD	19.357	3.3839	.23851	6.7844	2.7605	.20825	.81938

Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Sr3464 (Y_3710)
Units	ppb
Avg	73.691
Stddev	4.077
%RSD	5.5322

Check ? High Limit Low Limit	Chk Pass
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Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8292.5	7463.9	77902.	11744.
Stddev	21.5	23.5	20.	88.
%RSD	.25896	.31436	.02601	.74622

Check ? Value Range	Chk Pass 102.69%	Chk Pass 121.73%	Chk Pass 118.12%	Chk Pass 118.97%
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Sample Name: 240-12942-B-9-B Acquired: 7/9/2012 16:58:27 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31018	96077.	102.28	2.9010	924.72	7.6461	7646.4
Stddev	.50409	437.	1.19	.4406	4.45	.0817	37.3
%RSD	162.52	.45498	1.1590	15.187	.48158	1.0682	.48834

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(Y_2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.035	92.809	141.67	121.91	374190.	4350.6	80.433
Stddev	.273	.121	.13	.63	1538.	40.7	1.319
%RSD	8.981	.13053	.09397	.51500	.41103	.93525	1.6401

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17401.	9447.9	24.150	331.67	214.57	143.15	1.299
Stddev	108.	44.2	.128	7.15	.41	.56	1.131
%RSD	.61878	.46745	.53160	2.1557	.19288	.39273	87.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-9-B Acquired: 7/9/2012 16:58:27 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.3976	17.668	1219.2	22.374	226.45	905.12	2267.8
Stddev	.7357	.192	1.2	.371	.96	.82	18.5
%RSD	9.9457	1.0876	.09595	1.6573	.42440	.09051	.81606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	76.258
Stddev	1.563
%RSD	2.0496

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8327.8	7472.2	78072.	11721.
Stddev	7.9	4.5	263.	61.
%RSD	.09458	.06044	.33743	.52037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.12%	121.87%	118.38%	118.74%
Range				

Sample Name: 240-12942-B-10-B Acquired: 7/9/2012 17:02:25 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-45947	93835.	108.55	8.2689	760.11	5.9616	16950.
Stddev	.50099	401.	.62	.2016	1.47	.0303	68.
%RSD	109.04	.42784	.57021	2.4379	.19319	.50769	.40074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.722	110.82	186.70	170.02	263560.	6651.8	112.93
Stddev	.101	.15	.40	1.12	980.	30.8	1.79
%RSD	5.866	.13347	.21675	.66031	.37180	.46359	1.5869

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21627.	6140.4	48.051	332.37	234.09	191.14	1.105
Stddev	38.	60.7	.240	11.62	.53	.29	1.192
%RSD	.17419	.98923	.49844	3.4960	.22653	.14951	107.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-10-B Acquired: 7/9/2012 17:02:25 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.1140	15.886	701.44	12.124	203.89	873.70	2386.8
Stddev	.7798	.633	.57	1.614	1.59	2.04	5.9
%RSD	15.248	3.9854	.08178	13.315	.77915	.23392	.24675

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	83.495
Stddev	1.728
%RSD	2.0691

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8223.0	7548.2	78240.	11722.
Stddev	79.9	79.7	223.	60.
%RSD	.97120	1.0563	.28555	.51091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.83%	123.10%	118.63%	118.75%
Range				

Sample Name: 240-12942-B-11-B Acquired: 7/9/2012 17:06:23 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.1645	71092.	320.30	36.752	703.58	4.6002	367970.
Stddev	.1872	186.	1.79	.164	1.56	.0213	2394.
%RSD	5.9150	.26122	.55747	.44650	.22129	.46218	.65051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(Y_2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.344	116.98	1609.9	441.30	353050.	7450.3	82.225
Stddev	.001	.80	5.6	1.19	2000.	22.0	1.386
%RSD	.0127	.68532	.34901	.26984	.56658	.29513	1.6860

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59347.	11156.	91.120	1005.5	2483.8	495.84	1.140
Stddev	100.	33.	.567	4.2	15.9	.90	2.672
%RSD	.16901	.29320	.62238	.42002	.63889	.18087	234.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-11-B Acquired: 7/9/2012 17:06:23 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.3580	88.729	1143.5	29.380	222.43	1143.6	4430.9
Stddev	.7457	.721	4.5	.519	2.16	5.9	23.5
%RSD	8.9223	.81235	.39602	1.7672	.97029	.51835	.53103

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	539.90
Stddev	2.51
%RSD	.46423

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7706.4	7122.9	74288.	11447.
Stddev	21.4	10.5	470.	43.
%RSD	.27780	.14694	.63223	.37709

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.428%	116.17%	112.64%	115.96%
Range				

Sample Name: 240-12942-B-12-B Acquired: 7/9/2012 17:10:26 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46540	86471.	102.95	28.285	1120.2	6.4005	25662.
Stddev	.54031	503.	1.55	.554	4.1	.0162	127.
%RSD	116.09	.58160	1.5020	1.9589	.36869	.25345	.49454

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.049	91.375	313.86	199.43	199510.	5849.2	91.324
Stddev	.082	.200	.41	.95	23.	48.8	1.746
%RSD	1.615	.21866	.13182	.47482	.01129	.83483	1.9113

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17500.	8292.1	456.76	396.45	336.77	525.34	5.644
Stddev	61.	125.6	.10	4.26	.75	1.42	1.344
%RSD	.35112	1.5151	.02106	1.0752	.22244	.27003	23.81

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-12-B Acquired: 7/9/2012 17:10:26 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.101	95.358	1036.8	18.584	198.11	1405.6	2361.5
Stddev	2.428	1.031	3.1	.850	2.98	1.3	9.7
%RSD	24.042	1.0809	.29683	4.5726	1.5049	.09182	.41090

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	135.11
Stddev	2.66
%RSD	1.9654

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8163.1	7249.2	75874.	11098.
Stddev	10.4	11.7	939.	36.
%RSD	.12782	.16091	1.2379	.32023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.08%	118.23%	115.04%	112.42%
Range				

Sample Name: 240-12942-B-13-B Acquired: 7/9/2012 17:14:23 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.86375	97036.	86.015	21.639	1006.4	4.8499	67960.
Stddev	.33518	235.	1.482	.251	2.8	.0410	178.
%RSD	38.805	.24267	1.7232	1.1581	.28172	.84522	.26157

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.965	79.613	586.91	547.13	194790.	6304.0	96.285
Stddev	.046	.271	2.29	2.97	1965.	43.2	1.395
%RSD	1.563	.34026	.39075	.54215	1.0089	.68473	1.4484

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26453.	9893.2	197.11	484.50	192.19	867.94	2.989
Stddev	7.	122.7	.57	8.30	.74	.88	.812
%RSD	.02804	1.2403	.28735	1.7130	.38451	.10156	27.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-13-B Acquired: 7/9/2012 17:14:23 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 ;
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.6728	30.677	1145.4	21.948	266.67	1281.4	2467.1
Stddev	1.1706	.604	2.4	.774	1.94	2.4	4.6
%RSD	13.497	1.9680	.20794	3.5269	.72581	.18815	.18733

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	133.47
Stddev	.71
%RSD	.52907

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8210.3	7145.7	74975.	11000.
Stddev	17.0	19.0	171.	13.
%RSD	.20752	.26645	.22781	.11416

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.67%	116.54%	113.68%	111.43%
Range				

Sample Name: 240-12942-B-14-B Acquired: 7/9/2012 17:18:20 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.70230	99739.	64.875	17.681	336.85	6.9952	15508.
Stddev	.15291	697.	1.026	.181	1.58	.0605	114.
%RSD	21.773	.69892	1.5810	1.0242	.46995	.86489	.73817

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.599	161.36	193.17	227.46	303800.	11745.	204.13
Stddev	.081	.13	.72	.41	6729.	66.	.38
%RSD	5.037	.08009	.37464	.17894	2.2150	.56039	.18643

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49431.	5379.6	13.683	771.24	290.04	146.19	.0850
Stddev	213.	37.4	.068	9.60	.08	.83	2.765
%RSD	.43108	.69587	.49758	1.2451	.02592	.56718	3254.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-14-B Acquired: 7/9/2012 17:18:20 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7387	17.448	1701.7	10.945	187.56	877.14	1761.1
Stddev	.3908	.265	3.2	1.074	2.03	2.36	14.7
%RSD	8.2464	1.5159	.18952	9.8125	1.0810	.26933	.83311

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	85.978
Stddev	1.577
%RSD	1.8339

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8114.6	7698.4	81206.	12135.
Stddev	45.2	42.5	218.	85.
%RSD	.55644	.55255	.26857	.69651

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.48%	125.56%	123.13%	122.93%
Range				

Sample Name: 240-12942-B-15-B Acquired: 7/9/2012 17:22:16 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3678	80729.	69.263	39.755	901.94	5.5762	298080.
Stddev	.2593	298.	1.639	.317	2.97	.0386	1341.
%RSD	10.952	.36893	2.3669	.79815	.32951	.69246	.44976

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.640	99.356	975.27	204.22	255500.	9754.6	119.08
Stddev	.065	.761	1.49	.46	1263.	46.9	1.13
%RSD	3.969	.76643	.15310	.22733	.49441	.48033	.94675

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33371.	6773.0	44.507	986.98	744.91	136.05	-.3488
Stddev	90.	20.5	.229	11.73	4.70	.57	1.982
%RSD	.26928	.30220	.51454	1.1883	.63115	.42030	568.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-15-B Acquired: 7/9/2012 17:22:16 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.1523	26.689	1510.4	15.779	173.86	646.67	3114.5
Stddev	1.1038	.623	2.1	.865	1.86	4.29	3.1
%RSD	26.582	2.3326	.14220	5.4822	1.0724	.66403	.10048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	635.54
Stddev	1.09
%RSD	.17114

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7808.2	6949.1	73009.	11110.
Stddev	29.2	29.0	131.	53.
%RSD	.37386	.41787	.17977	.47716

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.689%	113.33%	110.70%	112.55%
Range				

Sample Name: 240-12942-B-16-B Acquired: 7/9/2012 17:26:23 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02840	101670.	75.042	5.7254	484.40	9.3979	18036.
Stddev	.12610	124.	.433	.1420	1.59	.0550	32.
%RSD	444.04	.12155	.57704	2.4797	.32827	.58497	.18012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.444	118.95	312.93	240.43	342190.	9102.6	168.48
Stddev	.144	.47	1.11	.65	1487.	33.1	.43
%RSD	9.944	.39613	.35341	.27036	.43445	.36418	.25244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36325.	4596.1	23.528	356.58	394.91	133.29	.2726
Stddev	83.	36.1	.094	3.99	1.83	.61	1.186
%RSD	.22949	.78562	.40106	1.1194	.46271	.45914	435.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-16-B Acquired: 7/9/2012 17:26:23 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.4184	20.118	1136.8	8.6710	190.23	820.54	2365.2
Stddev	2.1735	.734	2.5	.8664	1.25	2.11	14.0
%RSD	40.113	3.6468	.21776	9.9920	.65640	.25695	.58995

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	88.132
Stddev	2.520
%RSD	2.8591

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8110.8	7503.9	78220.	11705.
Stddev	38.7	29.8	337.	62.
%RSD	.47769	.39650	.43048	.52554

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.44%	122.38%	118.60%	118.57%
Range				

Sample Name: CCV Acquired: 7/9/2012 17:30:23 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	996.51	24931.	486.20	4805.6	1972.9	1990.0	50643.	483.2	1922.9
Stddev	1.63	51.	2.73	9.5	1.5	2.3	58.	1.5	4.3
%RSD	.16345	.20322	.56087	.19734	.07441	.11336	.11424	.3111	.22563

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1931.3	1911.8	24976.	48434.	4781.1	50177.	1898.9	1929.8	48371.
Stddev	2.3	2.1	15.	69.	1.6	58.	11.6	2.9	47.
%RSD	.11873	.10725	.05874	.14259	.03334	.11522	.61147	.15141	.09645

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1927.9	476.98	477.4	497.94	4945.0	4987.8	947.94	1961.3	1952.0
Stddev	2.6	.80	2.3	1.72	8.1	26.6	2.39	2.5	3.6
%RSD	.13679	.16863	.4722	.34586	.16334	.53300	.25184	.12594	.18614

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/9/2012 17:30:23 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4813.5	4731.3
Stddev	7.6	11.8
%RSD	.15761	.24925

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7928.1	6310.6	66393.	9775.1
Stddev	26.5	25.6	128.	64.4
%RSD	.33389	.40534	.19292	.65841

Sample Name: CCB Acquired: 7/9/2012 17:34:18 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.52478	9.5224	-1.7380	3.1349	-.38373	.08350	4.3013	-.0397
Stddev	.22249	2.5676	1.2646	.8377	.03873	.03140	.7221	.0537
%RSD	42.397	26.964	72.763	26.720	10.094	37.602	16.789	135.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08097	.08020	.18625	4.8381	184.49	12.989	1.0127	.06951
Stddev	.29364	.14907	.40749	.5849	12.18	1.220	8.8642	.02956
%RSD	362.67	185.88	218.78	12.089	6.6009	9.3953	875.29	42.536

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01643	50.799	-.20784	-.80885	-.5285	-.11996	-.10280	.04583
Stddev	.08545	9.631	.27268	.67167	1.148	1.1934	.07144	.14550
%RSD	520.12	18.958	131.20	83.039	217.2	994.77	69.497	317.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 17:34:18 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.6340	-.13776	.00253	5.1885	2.9861
Stddev	.7460	1.4060	.06563	8.4421	1.2639
%RSD	45.656	1020.6	2589.8	162.71	42.327

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8572.7	6551.3	68287.	9756.1
Stddev	3.1	6.9	937.	14.7
%RSD	.03594	.10508	1.3727	.15104

Sample Name: 240-12942-B-17-B Acquired: 7/9/2012 17:38:08 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46371	104370.	98.328	10.244	427.14	9.2827	14382.
Stddev	.27423	207.	1.918	.161	.44	.0969	38.
%RSD	59.138	.19786	1.9501	1.5684	.10229	1.0444	.26532

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.400	153.92	188.53	263.33	345450.	12541.	213.23
Stddev	.108	.42	.14	.14	2947.	31.	.91
%RSD	7.741	.27427	.07436	.05291	.85319	.24570	.42636

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44169.	4500.1	8.1020	494.82	326.77	152.95	.7809
Stddev	97.	31.6	.1765	3.18	.82	2.77	.9551
%RSD	.21908	.70332	2.1786	.64278	.25058	1.8116	122.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-17-B Acquired: 7/9/2012 17:38:08 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7792	18.249	1210.3	9.7411	178.28	963.93	1818.8
Stddev	1.3844	.050	1.8	.6897	2.55	1.15	2.7
%RSD	28.968	.27246	.15041	7.0808	1.4330	.11887	.14633

Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Sr3464 (Y_3710)
Units	ppb
Avg	89.010
Stddev	3.808
%RSD	4.2781

Check ? High Limit Low Limit	Chk Pass
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Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8208.7	7764.7	81102.	12323.
Stddev	11.3	12.2	133.	82.
%RSD	.13792	.15656	.16432	.66470

Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass
	101.65%	126.64%	122.97%	124.84%

Sample Name: 240-12942-B-18-B Acquired: 7/9/2012 17:42:06 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09753	102660.	170.66	8.1529	864.32	7.5761	8837.5
Stddev	.06516	314.	1.35	.2169	4.34	.0057	42.7
%RSD	66.816	.30625	.79140	2.6599	.50188	.07584	.48312

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9914	128.15	213.00	231.13	332810.	10824.	176.33
Stddev	.1464	.31	.61	.38	3227.	50.	.37
%RSD	14.76	.24497	.28687	.16353	.96970	.46071	.21232

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31721.	3727.2	10.312	416.95	247.12	144.41	.9384
Stddev	105.	13.3	.128	4.79	.82	.78	2.904
%RSD	.33097	.35649	1.2433	1.1488	.33338	.53897	309.5

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 240-12942-B-18-B Acquired: 7/9/2012 17:42:06 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.9658	16.701	1041.6	7.4009	188.88	826.36	1745.2
Stddev	.5692	.649	1.6	.5306	.86	1.38	1.8
%RSD	11.462	3.8861	.15122	7.1696	.45646	.16663	.10326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	85.242
Stddev	3.178
%RSD	3.7284

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8276.4	7731.4	81357.	12113.
Stddev	31.9	31.8	73.	57.
%RSD	.38521	.41115	.08976	.46649

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.49%	126.09%	123.36%	122.71%
Range				

Sample Name: 240-12942-B-19-B Acquired: 7/9/2012 17:46:04 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2917	62392.	83.485	69.282	839.61	3.2914	F 809940.
Stddev	.4521	130.	1.266	.281	2.12	.0453	2997.
%RSD	19.725	.20798	1.5170	.40617	.25292	1.3750	.37004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							500000.
Low Limit							-500000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.170	39.224	628.37	106.18	225890.	5901.2	33.835
Stddev	.143	.340	.32	.40	1825.	34.6	1.149
%RSD	6.599	.86594	.05030	.37995	.80793	.58573	3.3968

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90946.	6970.0	27.082	2066.8	414.81	59.838	-6.024
Stddev	176.	65.4	.181	18.4	1.04	.894	3.843
%RSD	.19307	.93819	.66800	.89011	.24992	1.4937	63.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-19-B Acquired: 7/9/2012 17:46:04 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960 (Y_2243)	Sn1899 (In2306)	Ti3372 (Y_3600)	Ti1908 (In2306)	V_2908 (Y_3710)	Zn2062 (In2306)	Si2516 (Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9671	25.351	2549.0	16.898	122.95	408.69	1497.5
Stddev	2.2669	.934	2.0	1.140	2.09	.89	6.4
%RSD	115.24	3.6830	.07995	6.7487	1.7019	.21729	.42787

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464 (Y_3710)
Units	ppb
Avg	1372.0
Stddev	10.3
%RSD	.75147

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7335.1	6574.8	68092.	10627.
Stddev	14.4	16.3	476.	56.
%RSD	.19664	.24804	.69916	.53048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.831%	107.23%	103.24%	107.65%
Range				

Sample Name: 240-12942-B-20-D Acquired: 7/9/2012 17:50:08 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.167	103430.	k 41.849	541.40	1621.0	3.2343	^ *****
Stddev	.708	396.	1.163	1.86	7.8	.0360	-----
%RSD	1.5000	.38288	2.7780	.34394	.48036	1.1147	-----

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 4.205	28.376	4454.5	k 181.39	F 797460.	2388.1	k 123.37
Stddev	.206	.340	9.2	.69	7408.	21.5	.62
%RSD	4.907	1.1975	.20693	.38227	.92896	.90135	.50475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					500000.		
Low Limit					-500000.		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	282590.	^ *****	98.536	3132.5	410.23	k 657.25	6.597
Stddev	670.	-----	.492	12.2	1.49	.26	1.357
%RSD	.23693	-----	.49948	.39015	.36404	.03962	20.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-B-20-D Acquired: 7/9/2012 17:50:08 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 85.243	38.075	13079.	k 483.66	3396.5	313.35	3649.6
Stddev	2.006	1.277	62.	1.73	18.6	.91	7.0
%RSD	2.3528	3.3536	.47150	.35863	.54899	.29023	.19085

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	964.56
Stddev	2.68
%RSD	.27771

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6970.3	6264.9	64279.	10191.
Stddev	5.6	7.4	383.	55.
%RSD	.08024	.11769	.59517	.53885

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.314%	102.18%	97.462%	103.24%
Range				

Sample Name: 240-12803-A-3-B Acquired: 7/9/2012 17:54:12 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

*use for 12803 only parent
 SD
 ms/msD*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.48290	70.622	6.4010	196.66	672.44	-.22420	206840.
Stddev	.31474	23.886	1.3692	.77	3.38	.03200	6011.
%RSD	65.176	33.822	21.390	.39098	.50217	14.273	2.9059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2688	2.2324	1.1916	20.425	9573.6	25617.	48.897
Stddev	.0727	.0484	.2124	.698	26.1	106.	1.339
%RSD	27.07	2.1690	17.827	3.4169	.27223	.41565	2.7387

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63030.	1817.2	2.6727	106200.	2.7743	-.94973	-1.122
Stddev	239.	3.0	.0686	296.	.3646	.16378	1.960
%RSD	.37907	.16587	2.5681	.27889	13.143	17.245	174.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-A-3-B Acquired: 7/9/2012 17:54:12 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.71164	.67795	2.3942	6.3993	3.1719	14.675	45672.
Stddev	1.0443	.51358	.1346	.8859	1.3948	.129	153.
%RSD	146.74	75.755	5.6214	13.843	43.974	.87777	.33438

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2413.6
Stddev	9.9
%RSD	.40990

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7969.8	6290.7	66248.	9927.8
Stddev	9.7	9.2	262.	222.3
%RSD	.12164	.14634	.39537	2.2391

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.690%	102.60%	100.45%	100.57%
Range				

Sample Name: SD 240-12803-A-3-B@5 Acquired: 7/9/2012 17:58:14 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25142	-18.156	.63768	32.035	131.88	-.17649	42657.	.0331
Stddev	.11919	16.329	.85086	.458	1.01	.06887	241.	.0919
%RSD	47.405	89.937	133.43	1.4304	.76248	39.020	.56513	277.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.51709	.18580	4.3973	1936.3	5149.7	19.847	12788.	369.45
Stddev	.29318	.26899	.7523	13.5	29.5	2.372	105.	.57
%RSD	56.697	144.78	17.107	.69474	.57281	11.953	.81771	.15405

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.42208	21367.	.29253	-.82437	-.3179	-.01299	.06311	.37564
Stddev	.16688	121.	.02598	.82132	.7900	.82554	.29195	.18918
%RSD	39.538	.56703	8.8817	99.630	248.5	6355.6	462.57	50.363

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-12803-A-3-B@5 Acquired: 7/9/2012 17:58:14 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.2255	-.66036	5.6074	8978.5	487.65
Stddev	.3046	1.0645	.0941	77.6	4.49
%RSD	24.860	161.20	1.6776	.86397	.92147

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8401.3	6446.7	68139.	10155.
Stddev	29.5	25.1	203.	54.
%RSD	.35134	.38943	.29810	.52909

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.03%	105.14%	103.32%	102.87%
Range				

Sample Name: 240-12803-A-3-C MS Acquired: 7/9/2012 18:02:00 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.596	2109.0	2039.2	1229.6	2836.7	50.031	259590.
Stddev	.446	30.0	10.1	.9	12.7	.146	3124.
%RSD	.81656	1.4218	.49422	.07135	.44900	.29083	1.2035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.01	489.32	196.05	267.78	10532.	76297.	1043.1
Stddev	.07	2.57	.43	.66	12.	173.	3.1
%RSD	.1384	.52495	.22149	.24642	.11354	.22641	.29771

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	113400.	2258.2	984.92	155450.	487.27	472.58	517.0
Stddev	138.	22.0	4.30	2403.	1.78	.86	2.3
%RSD	.12135	.97221	.43630	1.5461	.36458	.18122	.4511

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-A-3-C MS Acquired: 7/9/2012 18:02:00 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2091.9	2075.6	1042.8	1888.8	505.55	506.47	46434.
Stddev	1.0	14.7	1.5	6.0	2.19	1.31	129.
%RSD	.04632	.70851	.14741	.31601	.43227	.25858	.27793

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3375.1
Stddev	4.2
%RSD	.12511

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7531.9	6073.4	64390.	9915.4
Stddev	43.8	40.9	179.	16.4
%RSD	.58203	.67274	.27868	.16535

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.268%	99.052%	97.630%	100.44%
Range				

Sample Name: 240-12803-A-3-D MSD Acquired: 7/9/2012 18:06:04 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.582	2088.5	2010.5	1215.2	2801.7	49.393	254930.
Stddev	.343	9.3	8.0	1.5	13.1	.171	2810.
%RSD	.64019	.44551	.39617	.12381	.46752	.34576	1.1021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.12	485.40	194.19	262.78	10455.	75452.	1028.6
Stddev	.13	2.45	.64	.04	15.	237.	2.9
%RSD	.2707	.50555	.33092	.01421	.14598	.31437	.28135

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	112220.	2259.0	973.98	152040.	483.07	467.71	509.0
Stddev	147.	8.8	5.13	1611.	3.20	.95	4.6
%RSD	.13073	.39029	.52619	1.0598	.66319	.20334	.8951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-A-3-D MSD Acquired: 7/9/2012 18:06:04 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem.	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2069.4	2061.9	1039.6	1871.1	497.57	503.47	46008.
Stddev	8.7	17.4	2.2	1.5	.42	2.30	82.
%RSD	.42037	.84577	.21601	.07943	.08483	.45697	.17714

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3313.6
Stddev	16.9
%RSD	.50944

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7482.5	6049.2	63375.	9753.3
Stddev	2.8	9.5	329.	94.1
%RSD	.03693	.15637	.51965	.96525

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.656%	98.657%	96.092%	98.802%
Range				

Sample Name: 240-12803-A-4-B Acquired: 7/9/2012 18:10:07 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14210	595.06	12.986	198.52	230.47	-.24126	182610.
Stddev	.50707	34.41	.521	.71	3.12	.01787	2085.
%RSD	356.84	5.7824	4.0121	.35627	1.3539	7.4075	1.1415

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2795	.06566	1.6219	.27490	8955.4	20682.	41.223
Stddev	.0909	.03879	.2265	.50692	92.3	238.	2.038
%RSD	32.51	59.075	13.965	184.40	1.0307	1.1494	4.9434

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61503.	1345.1	.40640	103630.	.97459	-.17810	-3.338
Stddev	698.	7.8	.08656	1086.	.16297	1.2536	3.531
%RSD	1.1352	.57783	21.299	1.0478	16.721	703.87	105.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-A-4-B Acquired: 7/9/2012 18:10:07 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29218	.47250	17.445	5.1435	2.1976	2.5383	50651.
Stddev	1.2495	.36689	.522	.7241	1.6539	.0393	480.
%RSD	427.65	77.650	2.9899	14.079	75.259	1.5469	.94817

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2015.4
Stddev	16.8
%RSD	.83223

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7840.9	6193.3	64916.	10116.
Stddev	57.4	40.5	244.	132.
%RSD	.73207	.65413	.37582	1.3080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.095%	101.01%	98.428%	102.48%
Range				

Sample Name: 240-12803-A-5-B Acquired: 7/9/2012 18:14:00 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34449	1580.5	14.007	271.89	122.11	-.13812	194840.
Stddev	.37785	9.0	.359	.91	.20	.01432	1534.
%RSD	109.68	.56692	2.5625	.33495	.16717	10.368	.78731

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3613	.71975	2.7319	3.4077	1461.9	35306.	96.174
Stddev	.0399	.15780	.1938	1.0497	1.5	23.	2.230
%RSD	11.04	21.924	7.0922	30.804	.10178	.06565	2.3189

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54230.	139.27	2.9424	95018.	2.6267	-1.0499	-.8514
Stddev	57.	.58	.0432	119.	.0785	.7592	.4013
%RSD	.10435	.41637	1.4676	.12510	2.9878	72.308	47.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12803-A-5-B Acquired: 7/9/2012 18:14:00 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5368	.71869	45.580	2.9378	16.235	7.1195	30869.
Stddev	1.0483	.36824	.316	1.4009	.239	.0600	45.
%RSD	68.209	51.237	.69400	47.686	1.4707	.84307	.14697

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1407.3
Stddev	10.8
%RSD	.76655

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7847.4	6220.5	65215.	10159.
Stddev	13.5	11.8	173.	13.
%RSD	.17230	.18988	.26468	.13276

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.175%	101.45%	98.882%	102.91%
Range				

Sample Name: CCV Acquired: 7/9/2012 18:17:55 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1004.3	24705.	479.06	4758.4	1963.3	1969.2	50038.	479.6	1919.7
Stddev	1.2	166.	2.11	12.4	11.4	7.6	290.	1.3	1.7
%RSD	.11604	.67004	.44042	.26102	.58044	.38542	.58046	.2702	.08720

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1933.6	1909.0	24792.	48061.	4753.0	49583.	1910.3	1931.1	48008.
Stddev	4.7	5.1	27.	217.	19.8	205.	13.9	4.9	185.
%RSD	.24112	.26685	.10924	.45089	.41613	.41318	.73017	.25408	.38632

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1926.2	476.18	473.5	494.93	4961.3	5026.9	932.66	1945.5	1953.8
Stddev	1.7	1.24	3.8	1.40	6.3	61.3	3.35	13.0	1.1
%RSD	.09070	.26106	.7991	.28232	.12638	1.2185	.35917	.67032	.05797

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/9/2012 18:17:55 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4812.4	4705.0
Stddev	13.2	19.9
%RSD	.27460	.42355

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7805.0	6225.5	65137.	9674.7
Stddev	31.4	20.6	322.	29.5
%RSD	.40278	.33148	.49383	.30472

Sample Name: CCB Acquired: 7/9/2012 18:21:50 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.42631	-2.4878	.06122	3.4783	-.14492	.36361	18.104	-.1785
Stddev	.45291	17.837	1.0297	.7265	.23374	.26035	8.592	.0938
%RSD	106.24	717.00	1681.9	20.887	161.29	71.602	47.458	52.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07171	.62737	.79877	9.1178	268.89	13.734	9.0339	.15431
Stddev	.04676	.26680	.26345	3.4925	13.67	1.153	15.390	.06525
%RSD	65.208	42.527	32.982	38.304	5.0827	8.3947	170.36	42.281

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00344	116.48	-.04053	-1.6230	-.6978	.56135	.60799	-.03732
Stddev	.20252	10.30	.29192	.9384	1.687	1.1942	.38530	.14805
%RSD	5893.8	8.8423	720.30	57.819	241.8	212.74	63.373	396.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 18:21:50 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.38714	.80337	.00033	13.775	2.5916
Stddev	1.4465	1.5595	.02961	1.157	.7161
%RSD	373.65	194.11	8915.2	8.3958	27.632

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8386.6	6416.6	67384.	9970.4
Stddev	13.3	8.3	79.	21.4
%RSD	.15912	.12928	.11663	.21416

Sample Name: 240-12877-A-2-A@5 Acquired: 7/9/2012 18:25:40 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment: *NCM matrix*

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11121	-35.657	-1.4176	92.574	15.747	-.22470	174380.
Stddev	.36766	14.894	1.0184	.747	.132	.02338	1746.
%RSD	330.61	41.770	71.837	.80697	.83504	10.406	1.0015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1196	.28568	6.1785	1.5233	8.3971	28610.	176.16
Stddev	.0923	.14161	.1809	.7287	.2122	51.	1.59
%RSD	77.19	49.570	2.9271	47.838	2.5273	.17848	.90375

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1399.3	3.0802	2.6891	266220.	38.471	-1.2366	-1.962
Stddev	12.6	.0231	.1743	2091.	.233	1.7023	.229
%RSD	.89748	.75110	6.4811	.78550	.60471	137.66	11.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12877-A-2-A@5 Acquired: 7/9/2012 18:25:40 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9814	1.8598	-.09699	3.6871	.69327	32.069	456.65
Stddev	.9123	.0345	.18220	1.2889	.38085	.139	7.92
%RSD	46.044	1.8559	187.84	34.958	54.936	.43239	1.7346

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2908.1
Stddev	9.7
%RSD	.33351

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7851.7	6240.0	64875.	10188.
Stddev	8.2	4.5	431.	35.
%RSD	.10412	.07254	.66481	.34134

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.229%	101.77%	98.366%	103.21%
Range				

Sample Name: 240-12907-E-1-A Acquired: 7/9/2012 18:29:43 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)✓	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-55581	2940.0	18.420	5290.1	13021.	-5.1929	^ *****
Stddev	.67250	9.7	1.900	13.8	52.	.0727	----
%RSD	120.99	.32975	10.317	.26167	.39790	1.3995	----

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)✓	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7850	4.2839	4.6075	k 122.25	254.17	322600.	k 17234.
Stddev	.1247	.0587	.5891	1.03	.91	1756.	53.
%RSD	15.89	1.3694	12.786	.83953	.35896	.54428	.30686

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710) /	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	332070.	397.60	49.271	^ *****	19.423	k -17.174	-4.558
Stddev	1072.	.20	.619	----	.991	.522	2.753
%RSD	.32269	.05130	1.2558	----	5.1005	3.0394	60.40

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12907-E-1-A Acquired: 7/9/2012 18:29:43 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.97566	6.5276	-13.540	8.1494	-2.8784	5.5896	297.60
Stddev	.38169	.5821	.040	1.0236	1.6561	.0458	10.17
%RSD	39.121	8.9170	.29653	12.560	57.535	.81874	3.4170

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	F 520160.
Stddev	2204.
%RSD	.42368

Check ?	Chk Fail
High Limit	50000.
Low Limit	-500000.

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	W 4252.7	W 3830.8	W 41939.	8391.1
Stddev	9.3	.4	78.	24.4
%RSD	.21812	.01161	.18710	.29098

Check ?	Chk Warn	Chk Warn	Chk Warn	Chk Pass
Value	52.661%	62.477%	63.590%	85.003%
Range	-30.500%	-30.500%	-30.500%	

Sample Name: 240-12907-e-1-a@20 Acquired: 7/9/2012 18:33:54 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22646	107.32	.91090	238.16	634.59	-.33472	260000.
Stddev	.89821	20.42	1.1833	.38	3.34	.01178	2396.
%RSD	396.63	19.031	129.90	.16082	.52657	3.5189	.92143

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0026	.27400	1.2439	.19084	15.323	15563.	684.92
Stddev	.0996	.08386	.2132	.29063	1.242	177.	2.87
%RSD	3885.	30.606	17.140	152.28	8.1065	1.1369	.41904

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19433.	21.947	2.2500	482930.	2.0186	-1.8742	-2.762
Stddev	79.	.040	.1407	10730.	.4555	.3167	3.228
%RSD	.40588	.18362	6.2549	2.2218	22.565	16.897	116.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12907-e-1-a@20 Acquired: 7/9/2012 18:33:54 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.8413	.76287	-1.4563	3.6744	1.4703	3.8511	17.241
Stddev	2.4792	.13052	.0631	1.2669	.7773	.0573	4.122
%RSD	134.64	17.109	4.3321	34.479	52.867	1.4866	23.906

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	28271.
Stddev	113.
%RSD	.39848

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7175.1	5869.2	60533.	9782.9
Stddev	25.5	21.8	163.	58.4
%RSD	.35537	.37062	.26931	.59737

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.850%	95.723%	91.782%	99.102%
Range				

Sample Name: 240-12820-f-1-b Acquired: 7/9/2012 18:37:59 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15712	61.925	3.0277	33.723	70.418	-.09154	19429.	.0081
Stddev	.46895	24.110	1.0052	.109	.565	.03653	52.	.0466
%RSD	298.46	38.934	33.201	.32189	.80230	39.905	.26956	575.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0358	.55171	2.8572	358.99	24900.	17.072	7749.9	16.612
Stddev	.2881	.12208	.1813	.99	92.	1.933	43.3	.046
%RSD	27.816	22.127	6.3456	.27662	.37074	11.323	.55847	.27468

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6257	7679.6	1.3115	-.05436	1.082	.04454	-.33050	2.6652
Stddev	.0838	57.0	.1647	.55514	.532	.61193	.19373	.1498
%RSD	1.8107	.74273	12.561	1021.3	49.14	1373.7	58.619	5.6205

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12820-f-1-b Acquired: 7/9/2012 18:37:59 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.1134	2.7498	1.9426	2060.9	90.295
Stddev	.2214	2.6371	.1413	8.3	2.535
%RSD	10.474	95.901	7.2750	.40145	2.8078

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8420.4	6456.2	67937.	10317.
Stddev	45.2	30.7	141.	43.
%RSD	.53725	.47532	.20806	.41334

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.27%	105.30%	103.01%	104.51%
Range				

Sample Name: 240-12821-f-1-b Acquired: 7/9/2012 18:41:45 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.33371	1.4251	-1.2793	32.120	21.040	-.09066	21199.	-.0836
Stddev	.60283	4.9389	.0776	.446	.040	.07172	104.	.1424
%RSD	180.65	346.56	6.0684	1.3899	.19041	79.111	.49005	170.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16967	.67784	5.2588	285.07	3446.7	15.486	6261.2	51.413
Stddev	.18227	.11883	.1292	.22	14.3	1.268	37.7	.120
%RSD	107.43	17.531	2.4575	.07825	.41564	8.1871	.60277	.23394

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07577	6133.7	.98284	-.11979	-.9126	.71189	-.56893	-.12116
Stddev	.12712	29.8	.13102	.92271	.2406	1.0420	.11113	.23870
%RSD	167.78	.48533	13.330	770.24	26.37	146.38	19.534	197.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12821-f-1-b Acquired: 7/9/2012 18:41:45 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.0627	.28777	317.84	2407.8	73.352
Stddev	.4272	2.9431	.45	9.0	5.077
%RSD	20.713	1022.8	.14047	.37317	6.9219

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8600.9	6613.6	68466.	10064.
Stddev	14.8	9.8	1470.	102.
%RSD	.17158	.14754	2.1475	1.0132

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	106.51%	107.86%	103.81%	101.95%
Range				

Sample Name: 240-12823-f-1-b Acquired: 7/9/2012 18:45:30 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26787	.25948	1.3293	49.140	41.305	-.12106	53357.	-.0940
Stddev	.38416	28.731	.6361	.345	.243	.02542	131.	.0832
%RSD	143.41	11073.	47.848	.70307	.58756	20.999	.24522	88.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26450	.94120	3.3263	97.211	8455.4	12.449	5690.3	45.201
Stddev	.16118	.18053	.5452	1.175	22.9	1.329	18.4	.161
%RSD	60.936	19.181	16.391	1.2086	.27112	10.671	.32289	.35619

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.79700	8828.5	1.0303	.37178	-.4970	.27497	-.29303	.01836
Stddev	.05255	24.3	.2207	1.0275	.7472	1.6995	.18776	.15445
%RSD	6.5930	.27575	21.425	276.38	150.4	618.05	64.076	841.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12823-f-1-b Acquired: 7/9/2012 18:45:30 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.8413	.94582	14.405	4618.5	216.69
Stddev	.6956	2.7006	.044	10.9	4.03
%RSD	24.483	285.53	.30294	.23670	1.8595

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8529.9	6558.2	68583.	10376.
Stddev	11.1	4.6	141.	25.
%RSD	.12976	.07072	.20518	.24202

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.63%	106.96%	103.99%	105.11%
Range				

Sample Name: 240-12826-f-1-b Acquired: 7/9/2012 18:49:16 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.63150	-27.970	-2.1962	3.7809	79.185	-.12247	35728.	-.0597
Stddev	.10713	3.634	2.1807	.0495	.110	.01660	95.	.0945
%RSD	16.965	12.991	99.293	1.3087	.13836	13.558	.26599	158.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07458	.50700	.90719	221.63	1748.9	11.057	9328.8	9.4346
Stddev	.05697	.08814	.15694	1.55	8.7	.265	14.1	.0243
%RSD	76.382	17.385	17.300	.69929	.49914	2.3937	.15146	.25799

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03645	5565.3	.54191	-.22668	-.8815	.09160	-.28251	-.04041
Stddev	.17466	27.1	.20654	.88075	1.199	1.9007	.14194	.04608
%RSD	479.13	.48620	38.114	388.54	136.0	2075.0	50.242	114.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12826-f-1-b Acquired: 7/9/2012 18:49:16 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.4273	-.23350	2.0819	5301.4	144.74
Stddev	.4344	1.9074	.0665	27.9	1.71
%RSD	30.439	816.86	3.1955	.52592	1.1787

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8480.7	6523.6	68610.	10492.
Stddev	15.9	16.0	183.	11.
%RSD	.18770	.24542	.26735	.10723

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.02%	106.40%	104.03%	106.29%
Range				

Sample Name: 240-12605-e-1-b Acquired: 7/9/2012 18:53:03 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28449	-18.866	-1.6889	6.8841	54.773	-.15810	57456.	.2846
Stddev	.17991	24.871	1.0251	.1873	.491	.05340	153.	.0923
%RSD	63.242	131.83	60.696	2.7203	.89705	33.778	.26642	32.42

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28497	1.1180	1.2708	2.4597	1612.6	10.252	32159.	.57578
Stddev	.13667	.3608	.4955	.6478	28.5	.485	58.	.01910
%RSD	47.961	32.277	38.994	26.337	1.7696	4.7321	.18133	3.3180

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19189	4922.4	.39096	.22549	.5341	.31378	-.01758	-.18157
Stddev	.10082	15.5	.47890	.76592	1.005	1.7487	.27969	.07299
%RSD	52.542	.31530	122.49	339.67	188.1	557.28	1591.3	40.202

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12605-e-1-b Acquired: 7/9/2012 18:53:03 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.9047	.53716	26.911	4342.1	59.896
Stddev	.7851	1.5842	.122	7.2	3.148
%RSD	41.219	294.93	.45493	.16503	5.2551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8228.8	6402.6	67354.	10228.
Stddev	16.0	11.9	357.	44.
%RSD	.19435	.18616	.53036	.42865

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.90%	104.42%	102.12%	103.61%
Range				

Sample Name: 240-12664-c-1-b Acquired: 7/9/2012 18:56:51 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.61352	11.559	1.0035	851.88	98.757	-.17659	77613.
Stddev	.15747	30.107	.7260	1.67	1.263	.00678	1475.
%RSD	25.666	260.47	72.341	.19613	1.2793	3.8409	1.9011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0333	7.2849	3.8210	2.1654	2055.2	67288.	25.549
Stddev	.1089	.2487	.0611	.2517	8.8	546.	1.347
%RSD	327.6	3.4143	1.5994	11.624	.43043	.81075	5.2728

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20233.	877.30	.57837	132600.	30.084	-.16815	-.0938
Stddev	189.	2.72	.15199	1878.	.107	.63988	.8241
%RSD	.93477	.31050	26.279	1.4163	.35583	380.53	878.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12664-c-1-b Acquired: 7/9/2012 18:56:51 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3389	.62818	.46614	5.6738	-.59385	8.1625	6288.4
Stddev	1.4142	.56918	.16111	.8865	3.3388	.0406	18.0
%RSD	105.62	90.608	34.564	15.624	562.22	.49682	.28653

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	330.08
Stddev	2.77
%RSD	.83847

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8161.1	6433.7	66531.	10362.
Stddev	11.5	9.5	77.	137.
%RSD	.14067	.14812	.11615	1.3268

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.06%	104.93%	100.88%	104.97%
Range				

Sample Name: 240-12672-j-3-a@20 Acquired: 7/9/2012 19:00:50 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Rerun AgAs CdCr Ni Pb Sb Se TL Zn

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6299	26.686	3.9310	3158.3	9.0201	-.05121
Stddev	.3827	6.712	1.2373	6.3	.2760	.06846
%RSD	14.552	25.152	31.476	.19834	3.0600	133.67

Check ?	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30680.	752.8	47.240	2.1263	123.38	23.780
Stddev	103.	2.9	.591	.3307	.62	3.069
%RSD	.33433	.3861	1.2501	15.553	.50297	12.904

Check ?	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	296650.	689.76	25291.	827.50	23.519	F 1471400.
Stddev	784.	3.34	31.	1.56	.239	43258.
%RSD	.26419	.48363	.12317	.18798	1.0165	2.9400

Check ?	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Low Limit						500000. -500000.

Sample Name: 240-12672-j-3-a@20 Acquired: 7/9/2012 19:00:50 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 ;
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.390	267.98	97.81	35.443	5.4153	9.6118
Stddev	.430	1.00	1.37	1.310	.2711	.0978
%RSD	1.2164	.37278	1.396	3.6951	5.0065	1.0172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ti1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	25.666	.58230	F 18635.	884.63	206.70
Stddev	.276	1.0643	33.	8.47	5.35
%RSD	1.0754	182.78	.17496	.95730	2.5896

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			10000.		
Low Limit			-500000.		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7097.4	5825.0	58606.	9674.2
Stddev	16.7	19.9	181.	14.4
%RSD	.23509	.34108	.30873	.14916

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.887%	95.002%	88.861%	98.001%
Range				

Sample Name: CCV Acquired: 7/9/2012 19:04:54 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :

Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1005.2	24620.	480.46	4782.2	1972.7	1974.4	49985.	481.3	1932.3
Stddev	1.6	88.	2.65	5.8	6.9	5.4	167.	1.0	1.6
%RSD	.16098	.35800	.55075	.12066	.35023	.27155	.33509	.2084	.08184

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1935.8	1905.9	24738.	48164.	4796.6	49439.	1911.2	1937.9	45979.
Stddev	1.1	3.8	8.	73.	8.3	77.	22.6	4.4	216.
%RSD	.05434	.19937	.03380	.15069	.17376	.15587	1.1821	.22459	.46928

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1933.1	478.02	475.9	495.35	4975.7	5021.4	935.57	1941.4	1961.0
Stddev	2.1	1.81	1.4	2.02	5.9	45.4	2.66	6.6	1.1
%RSD	.10902	.37809	.3002	.40780	.11786	.90457	.28399	.34042	.05487

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Sample Name: CCV Acquired: 7/9/2012 19:04:54 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4774.3	4669.2
Stddev	11.5	13.1
%RSD	.24091	.28136

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7922.4	6327.6	66288.	10130.
Stddev	15.4	13.8	239.	38.
%RSD	.19413	.21779	.36050	.37465

Sample Name: CCB Acquired: 7/9/2012 19:08:50 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-97480	-8.6358	F 72.383	62.860	-.11571	.12281	2.3330
Stddev	.50288	3.0432	25.133	14.990	.14715	.06194	1.3315
%RSD	51.587	35.239	34.722	23.847	127.17	50.436	57.072

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			5.0000				
Low Limit			-5.0000				

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 1.649	F 5.4951	2.2238	.65307	4.1147	424.49	13.398
Stddev	.585	.8818	.7505	.41633	1.0184	44.28	.565
%RSD	35.51	16.047	33.748	63.750	24.751	10.430	4.2204

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.000	5.0000					
Low Limit	-1.000	-5.0000					

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.8848	-.12422	9.3818	762.74	F -14.997	F -6.5481	F -57.91
Stddev	3.7509	.08144	2.5344	15.49	3.786	2.1191	15.13
%RSD	199.01	65.561	27.015	2.0313	25.246	32.362	26.12

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					10.000	3.0000	6.000
Low Limit					-10.000	-3.0000	-6.000

Sample Name: CCB Acquired: 7/9/2012 19:08:50 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 17.446	20.861	-.01694	F -17.449	1.9896	14.445	-2.4829
Stddev	1.462	5.059	.17208	4.738	.7062	3.972	7.4580
%RSD	8.3832	24.250	1015.6	27.155	35.495	27.499	300.38

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	5.0000			10.000			
Low Limit	-5.0000			-10.000			

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-1.7171
Stddev	5.6848
%RSD	331.07

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7763.7	6082.5	63007.	9724.6
Stddev	67.4	31.2	557.	147.9
%RSD	.86865	.51257	.88395	1.5203

Sample Name: 240-12672-m-2-e@50 Acquired: 7/9/2012 19:12:32 Type: Unk
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.66887	916.26	3.3257	54.653	2.1294	-.04633	5525.5	42.91
Stddev	.30458	30.27	.3245	.515	.1737	.01647	24.4	.18
%RSD	45.536	3.3035	9.7585	.94216	8.1593	35.546	.44172	.4276

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.096	1.7586	110.12	3.6972	3528.6	24.262	1112.6	64.069
Stddev	.078	.1947	.36	1.4584	28.9	1.328	3.1	.094
%RSD	.64443	11.070	.32313	39.445	.81815	5.4741	.27904	.14617

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3023	50214.	13.269	15.432	5.977	6.6531	-.38292	-.07704
Stddev	.0543	162.	.079	.742	.571	1.8191	.32659	.22597
%RSD	4.1669	.32241	.59464	4.8053	9.547	27.342	85.288	293.31

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-12672-m-2-e@50 Acquired: 7/9/2012 19:12:32 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	<u>Zn2062</u>	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.32349	.78500	4350.5	730.27	23.202
Stddev	.31182	1.3967	2.5	2.95	7.544
%RSD	96.391	177.93	.05741	.40443	32.517

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8499.1	6534.2	66232.	9997.2
Stddev	21.8	23.2	42.	101.2
%RSD	.25634	.35531	.06286	1.0127

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.24%	106.57%	100.42%	101.27%
Range				

Sample Name: 240-12942-b-20-d@5 Acquired: 7/9/2012 19:16:17 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Rerun

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.526	22379.	k 6.5844	118.28	355.17	.79745	339650.
Stddev	.048	116.	1.2774	.27	.59	.04490	1783.
%RSD	.46043	.51678	19.401	.22946	.16597	5.6310	.52481

Check ?	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 1.308	5.8606	1040.4	28.085	201880.	771.85	6.6832
Stddev	.172	.0440	2.8	.744	2442.	49.58	.4219
%RSD	13.17	.75099	.27221	2.6494	1.2098	6.4240	6.3130

Check ?	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	65591.	^ *****	22.622	1200.0	89.268	161.70	-.5111
Stddev	183.	-----	.110	7.4	.708	.93	.9843
%RSD	.27894	-----	.48585	.61421	.79358	.57809	192.6

Check ?	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
High Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Sample Name: 240-12942-b-20-d@5 Acquired: 7/9/2012 19:16:17 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 20.825	8.4099	3020.5	k 111.37	764.36	72.949	826.68
Stddev	1.298	.4175	5.6	.87	4.43	.109	5.90
%RSD	6.2346	4.9642	.18616	.77916	.57949	.14993	.71351

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	222.29
Stddev	3.10
%RSD	1.3965

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7766.6	6280.5	64788.	9992.4
Stddev	24.1	23.7	211.	63.3
%RSD	.31084	.37756	.32535	.63339

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.174%	102.43%	98.234%	101.22%
Range				

Sample Name: 240-12942-b-20-d Acquired: 7/9/2012 19:20:20 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7
 Comment:

nm 7-10-12
~~not~~ *already Run*
not needed

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.779	100940.	k 42.765	531.58	1606.8	3.3737	^ *****
Stddev	.342	547.	1.995	2.13	6.3	.0204	----
%RSD	.74718	.54145	4.6658	.40066	.39288	.60488	----

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 4.511	28.007	4467.3	k 181.29	F 789880.	2431.4	k 121.83
Stddev	.224	.365	7.1	.72	5052.	30.1	.44
%RSD	4.963	1.3028	.15913	.39859	.63960	1.2372	.35782

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					500000.		
Low Limit					-500000.		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	278620.	^ *****	98.404	3587.8	409.76	k 650.26	9.453
Stddev	557.	----	.326	8.5	2.26	1.22	1.539
%RSD	.20008	----	.33176	.23671	.55205	.18800	16.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-12942-b-20-d Acquired: 7/9/2012 19:20:20 Type: Unk
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 86.580	38.619	13129.	k 483.13	3326.6	314.24	3701.1
Stddev	.938	.970	96.	2.05	13.4	1.06	6.1
%RSD	1.0830	2.5122	.72859	.42483	.40286	.33803	.16458

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	936.57
Stddev	8.76
%RSD	.93494

Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6993.8	6326.7	63479.	10259.
Stddev	81.0	73.3	318.	38.
%RSD	1.1576	1.1593	.50091	.36609

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.605%	103.18%	96.249%	103.93%
Range				

Sample Name: CCV Acquired: 7/9/2012 19:24:25 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.1	24342.	477.19	4747.6	1946.8	1954.1	49324.	478.0	1932.6
Stddev	2.4	87.	2.87	10.7	7.7	5.7	267.	1.3	4.7
%RSD	.24198	.35700	.60201	.22530	.39307	.29423	.54079	.2794	.24220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1935.6	1899.6	24695.	47422.	4729.5	49216.	1914.9	1942.6	47331.
Stddev	1.8	1.8	51.	153.	7.9	146.	16.4	3.0	136.
%RSD	.09165	.09564	.20600	.32343	.16718	.29568	.85675	.15464	.28721

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372	Ti1908	V_2908	Zn2062
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1936.6	478.17	474.9	496.61	5010.2	5051.4	928.94	1910.7	1976.9
Stddev	3.7	1.49	3.1	1.94	15.6	49.9	7.32	10.6	3.5
%RSD	.19191	.31259	.6485	.39126	.31133	.98752	.78799	.55259	.17627

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: CCV Acquired: 7/9/2012 19:24:25 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Si2516	Sr3464
IS Ref	(Y_3710)	(Y_3710)
Units	ppb	ppb
Avg	4743.5	4628.3
Stddev	15.7	26.9
%RSD	.33009	.58107

Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7962.1	6377.7	66397.	10236.
Stddev	22.5	14.7	145.	53.
%RSD	.28213	.22975	.21827	.51483

Sample Name: CCB Acquired: 7/9/2012 19:28:20 Type: QC
Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41038	21.447	-1.9797	5.2195	-.50962	-.04871	6.4759	-.0969
Stddev	.11231	27.038	1.6960	.6955	.29028	.02648	1.4420	.0770
%RSD	27.368	126.07	85.669	13.324	56.961	54.371	22.266	79.45

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17389	.59584	.96916	6.3034	262.03	14.086	.31518	.71580
Stddev	.23978	.28216	.38705	.7071	30.20	1.137	6.5870	.06575
%RSD	137.89	47.355	39.936	11.217	11.526	8.0694	2089.9	9.1862

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04440	311.95	.01616	-.57419	-.5111	.55810	-.33180	-.04527
Stddev	.13281	5.95	.27148	.91188	1.763	.70291	.10814	.04154
%RSD	299.15	1.9078	1679.7	158.81	345.0	125.95	32.593	91.747

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 7/9/2012 19:28:20 Type: QC
 Method: Standard Method + Strontium(v72) Mode: CONC Corr. Factor: 1.000000
 User: Roger Method: 6010B/6010C Method: 200.7 :
 Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref.	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.94098	-.32405	.17778	5.4078	1.9641
Stddev	.31992	2.1191	.08336	1.4851	3.4431
%RSD	33.999	653.95	46.892	27.463	175.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8584.8	6584.9	68553.	10185.
Stddev	8.5	13.8	134.	39.
%RSD	.09850	.21015	.19597	.38482

Test America North Canton ICP Data Review Checklist

Run/Project Information:

Run Date: 7-9-12

Analyst: SG/ngm

Instrument: I9

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd level
1. Instrument calibrated per manufacturer's instructions (minimum 2 exposures/sample) and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? (ICV (2 nd source): 200.7=95-105%, 6010B 90-110%) (CCV: 90-110%)	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run at SOP or project-specific frequency? Recovered within QC limits? (project specific limits may vary)	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP limits?	✓			✓
B. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Was the internal standard(s) within acceptance criteria for all results reported?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS/MSD run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL/LR/TEC data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

Level I Analyst: Natali J. Munnich

Date: 7-10-12

Time: 11:45-19:28

Level I Analyst: _____

Date: _____

Time: _____

Level I Analyst: _____

Date: _____

Time: _____

Level II Reviewer: B. H. J.

Date: 7.10.12

Time: 11:45-19:28

Level II Reviewer: _____

Date: _____

Time: _____

Level II Reviewer: _____

Date: _____

Time: _____

Comments: VOID Ba 200.7

TestAmerica ICP/MS Data Review Checklist

Run Date: 6-29-12 Analyst: Kur Instrument: 18

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution ≤ 0.9 AMU full width at 10% peak height, and within ± 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specifications? (Be > 8000 cps) (In > 300,000 cps) (Pb > 100,000 cps) (Co > 100,000) (Mg > 100,000) (CeO/Ce < 0.03) (Ba+/-Ba < 0.03) (Background < 30 cps @ Mass 220) CCT Performance Check (In > 75000) (Se < 20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels? Correlation coefficient > 0.995?	✓			✓
1. ICV/CCV analyzed at appropriate frequency and within control limits? (ICV: = 90 - 110%) (CCV: 90 - 110%, 200.8 = 85 - 115%)	✓			✓
2. ICB/CCB analyzed at appropriate frequency and within \pm RL?	✓			✓
3. CRI run and recovered within QC limits ($\pm 50\%$) or project limits?	✓			✓
4. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Were the internal standards within acceptance criteria for all results reported?	✓			✓
4. Sample analyses done within holding time?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				
1. Are all nonconformance's documented appropriately?	✓			✓
2. Current IDL/LR data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

Level I Analyst: B. J. J. Date: 7/2/12 Time: 8:07-02:21
 Level I Analyst: Natalie J. Munsell Date: 7-2-12 Time: 08:07-02:21
 Level II Reviewer: Natalie J. Munsell Date: 7-2-12 Time: 08:07-02:21
 Level II Reviewer: Natalie J. Munsell Date: 7-2-12 Time: 08:07-02:21

Comments: _____

Performance Report

Sample details

Acquired at : 6/29/2012 05:56:28

Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Mass Calibration verification

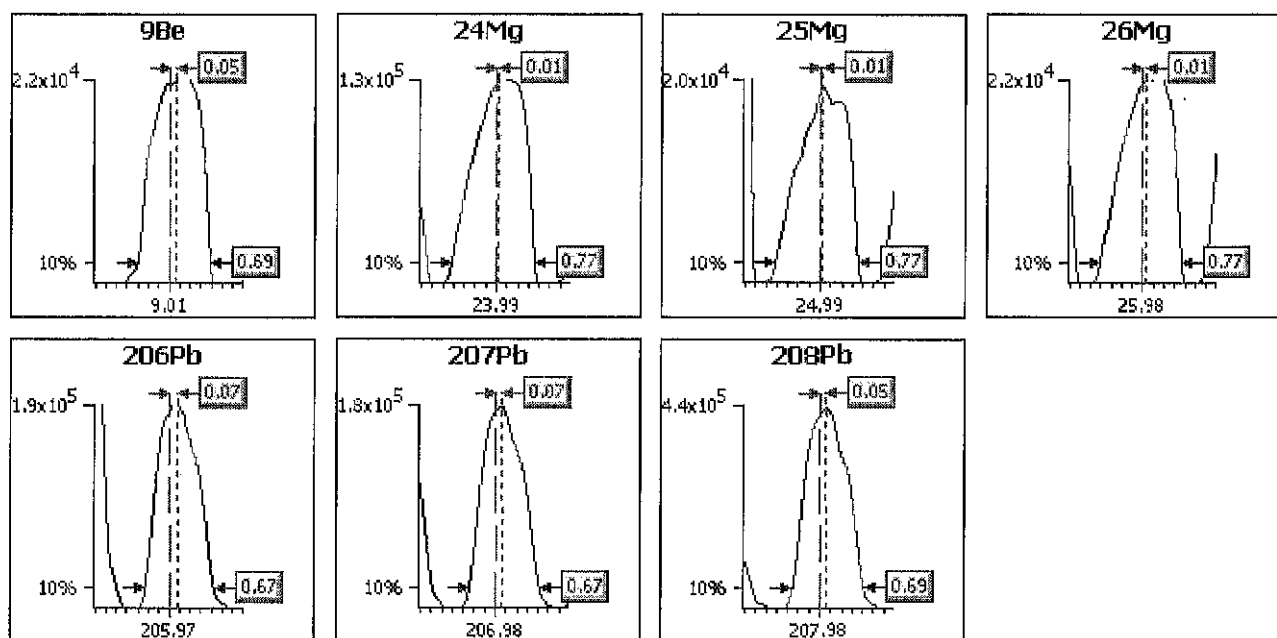
Acquisition parameters

Sweeps : 10

Dwell : 5.0 mSecs

Point spacing : 0.02 amu

Peak width measured at 10% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.69	0.05
24Mg	0.85	0.65	0.10	0.77	0.01
25Mg	0.85	0.65	0.10	0.77	0.01
26Mg	0.85	0.65	0.10	0.77	0.01
206Pb	0.85	0.65	0.10	0.67	0.07
207Pb	0.85	0.65	0.10	0.67	0.07
208Pb	0.85	0.65	0.10	0.69	0.05

Sample details

Acquired at : 6/29/2012 05:56:28

Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-62.7
Lens 1	-1153
Lens 2	-80.0
Focus	13.3
D1	-43.9
D2	-140
Pole Bias	-2.0
Hexapole Bias	-6.0
Nebuliser	0.80

Minor	
Lens 3	-195.3
Forward power	1451
Horizontal	55
Vertical	562
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	150

Global	
Standard resolution	125
High resolution	125
Analogue Detector	2050
PC Detector	3375

Add. Gases	
He_H2	0.00
He-Not In Use	0.00

Sensitivity and stability results**Acquisition parameters**

Sweeps : 30

Run	Time	58kg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	CountRate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	05:57:02	0.000	22254.848	131641.17	17779.478	21770.877	299385.01	1526.737	0.333	593771.84
2	05:57:20	0.000	20966.513	127905.59	18203.269	21700.785	294254.85	1510.068	0.000	591841.64
3	05:57:38	0.000	21610.668	130797.90	17856.227	20976.525	292572.28	1443.396	0.667	591682.81
4	05:57:56	0.000	21694.110	127210.29	17565.919	21403.735	292507.83	1495.623	1.000	601529.38
5	05:58:14	0.000	21443.786	127055.79	17535.887	20976.525	292908.10	1526.737	0.000	592711.76
X		0.000	21593.985	128922.15	17788.156	21365.689	294325.61	1500.512	0.400	594307.48
σ		0.00	464.58	2142.35	269.28	381.05	2915.06	34.47	0.43	4121.84
%RSD		0.000	2.151	1.662	1.514	1.783	0.990	2.297	108.653	0.694

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	CountRate	-	-	-	>100000	>100000	>100000	<30
1	05:57:02	71995.164	604811.68	15132.422	192475.02	175869.70	417911.29	0.000
2	05:57:20	71854.559	607593.50	15124.637	193119.07	174613.26	413800.61	0.000
3	05:57:38	72145.813	611264.13	15016.762	192791.98	174609.89	417842.94	0.000
4	05:57:56	71914.818	609456.37	15751.885	191385.92	175913.49	414449.77	0.000
5	05:58:14	72845.514	612982.20	14902.215	194478.07	174791.78	417046.70	0.000
X		72151.174	609221.58	15185.584	192850.01	175159.63	416210.26	0.000
σ		403.21	3180.69	330.17	1119.21	672.41	1947.08	0.00
%RSD		0.559	0.522	2.174	0.580	0.384	0.468	0.000

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	05:57:02	0.021	0.025
2	05:57:20	0.021	0.025
3	05:57:38	0.020	0.025
4	05:57:56	0.021	0.026
5	05:58:14	0.021	0.024
X		0.0208	0.0249
σ		0.00	0.00
%RSD		2.2372	2.3420

Result : The performance report passed.

Performance Report

Sample details

Acquired at : 6/29/2012 06:06:14

Report name : CCT MODE PERF REPORT [5/20/2011 11:37:05]

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-62.7	Lens 3	-195.3	Standard resolution	125	He_H2	2.78
Lens 1	-1153	Forward power	1451	High resolution	125	He-Not In Use	0.00
Lens 2	-80.0	Horizontal	55	Analogue Detector	2050		
Focus	0.8	Vertical	562	PC Detector	3375		
D1	-51.8	DA	-46.3				
D2	-140	Cool	13.0				
Pole Bias	-14.0	Auxiliary	0.90				
Hexapole Bias	-17.0	Sampling Depth	150				
Nebuliser	0.80						

Sensitivity and stability results

Acquisition parameters

Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		100.0	10.0
Limits	%RSD	-	5.0%
	CountRate	<20	>75000
1	06:06:15	15.000	163652.88
2	06:06:20	16.000	163400.42
3	06:06:25	16.333	161942.96
4	06:06:30	18.333	163864.94
5	06:06:35	16.333	159977.45
X		16.400	162567.73
σ		1.21	1631.99
%RSD		7.385	1.004

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA 6020-200.8_MULTIMODE.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	6/29/2012 08:05:56
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

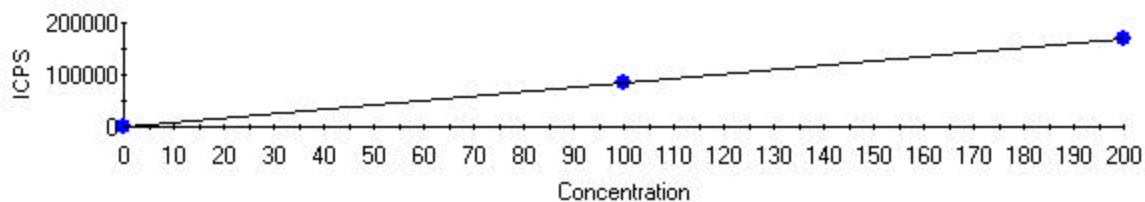
Blue text indicates that cell is a statistic.

Underlining indicates that a data warning flag is set.

Column headings	Result cells	Data warning flags
No flag	Internal Standard	I - Invalid calibration
Semi Quant	Excluded	T - Tripped
Standard Addition	QC Warning	F - Interference correction failed
Multi Element	QC Failure	M - Result over max
	Transient TRA only:	V - Valley integration failed
	Peak Not Found	D - Different method used
	Manually Edited	
	Merged Peak	

Fully Quant Calibration

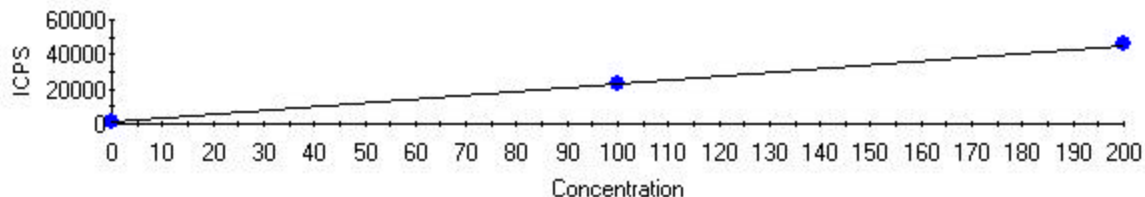
9Be FQ Block 1



Intercept CPS=32.383546 Intercept Conc=0.037981
Sensitivity=852.626550 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	32.38	0.00
STD2-523426,	100.000	99.798	0.202	85122.75	0.20
STD3-529839,	200.000	200.101	0.101	170643.84	0.05

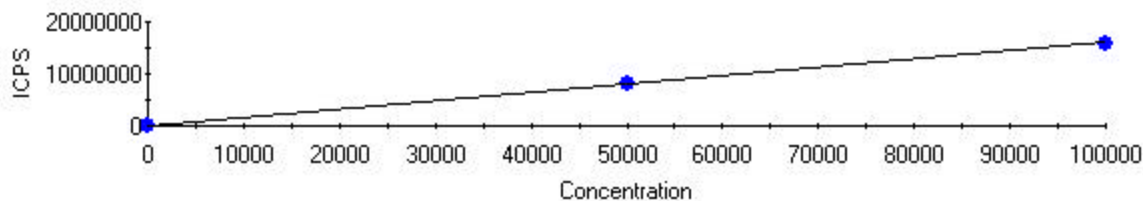
10B FQ Block 1



Intercept CPS=761.738866 Intercept Conc=3.403601
Sensitivity=223.803826 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	761.74	0.00
STD2-523426,	100.000	99.233	0.767	22970.46	0.77
STD4-482466,	200.000	200.384	0.384	45608.34	0.19

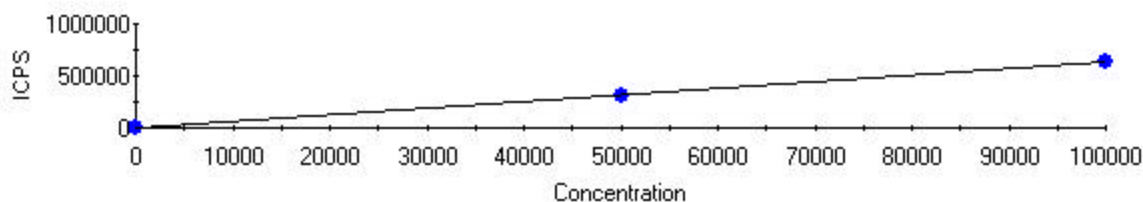
23Na FQ Block 1



Intercept CPS=8582.894404 Intercept Conc=53.742486
Sensitivity=159.704084 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	8582.89	0.00
STD2-523426,	50000.000	50314.445	314.445	8044005.24	0.63
STD3-529839,	100000.000	99842.777	157.223	15953882.18	0.16

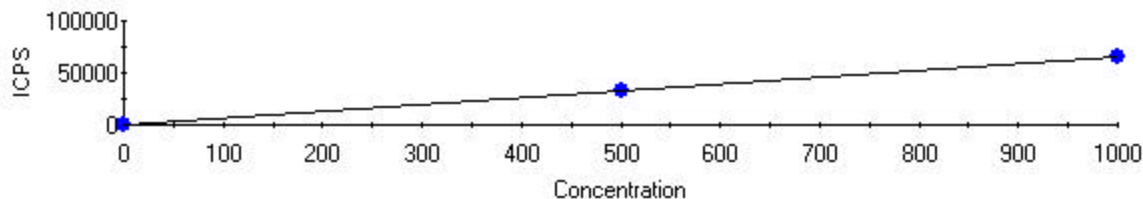
25Mg FQ Block 1



Intercept CPS=87.861021 Intercept Conc=13.969282
Sensitivity=6.289588 Correlation Coeff=0.999988

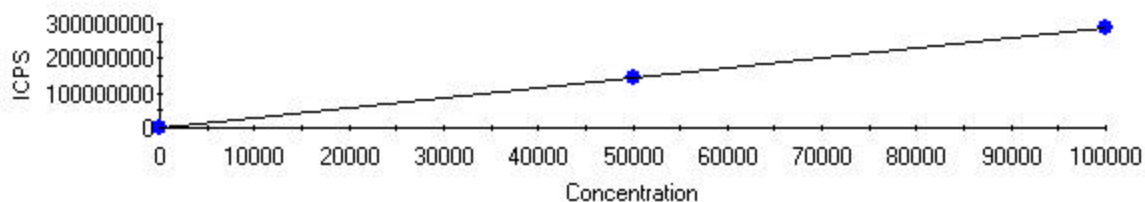
Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	87.86	0.00
STD2-523426,	50000.000	50338.856	338.856	316698.51	0.68
STD3-529839,	100000.000	99830.572	169.428	627981.00	0.17

27Al FQ Block 1



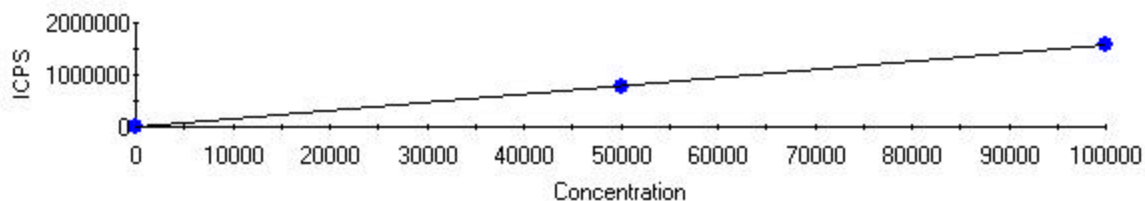
Intercept CPS=242.155452 Intercept Conc=3.741338
Sensitivity=64.724294 Correlation Coeff=0.999858

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	242.16	0.00
STD2-523426,	500.000	511.626	11.626	33356.82	2.33
STD3-529839,	1000.000	994.187	5.813	64590.19	0.58

39K FQ Block 1

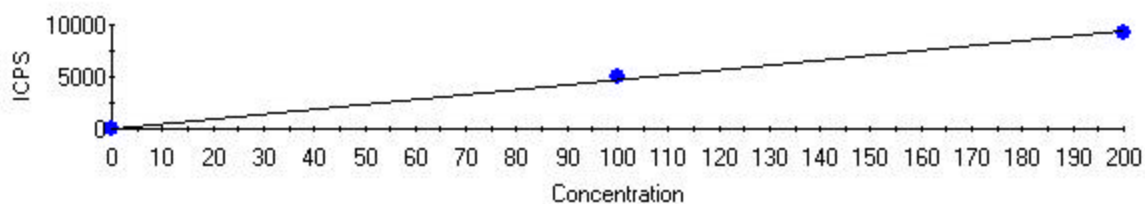
Intercept CPS=131156.306517 Intercept Conc=45.637604
Sensitivity=2873.864840 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	131156.31	0.00
STD2-523426,	50000.000	50005.623	5.623	143840559.31	0.01
STD3-529839,	100000.000	99997.188	2.812	287509559.75	0.00

43Ca FQ Block 1

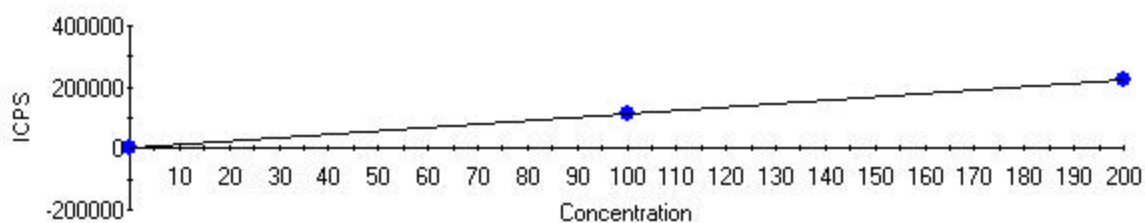
Intercept CPS=861.620786 Intercept Conc=55.181421
Sensitivity=15.614328 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	861.62	0.00
STD2-523426,	50000.000	49992.287	7.713	781457.57	0.02
STD3-529839,	100000.000	100003.856	3.856	1562354.60	0.00

47Ti FQ Block 1

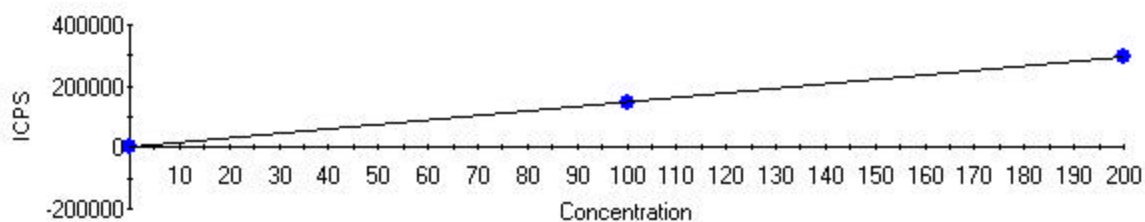
Intercept CPS=7.784562 Intercept Conc=0.164877
Sensitivity=47.214293 Correlation Coeff=0.998998

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	7.78	0.00
STD2-523426,	100.000	106.113	6.113	5017.83	6.11
STD4-482466,	200.000	196.944	3.056	9306.34	1.53

51V FQ Block 1

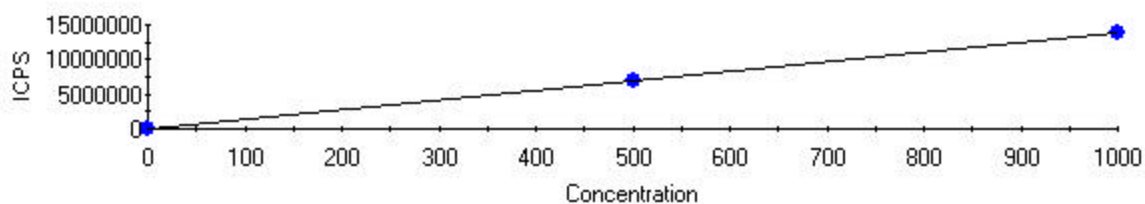
Intercept CPS=-187.327560 Intercept Conc=-0.166223
Sensitivity=1126.965198 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	-187.33	0.00
STD2-523426,	100.000	99.662	0.338	112127.82	0.34
STD3-529839,	200.000	200.169	0.169	225396.40	0.08

52Cr FQ Block 1

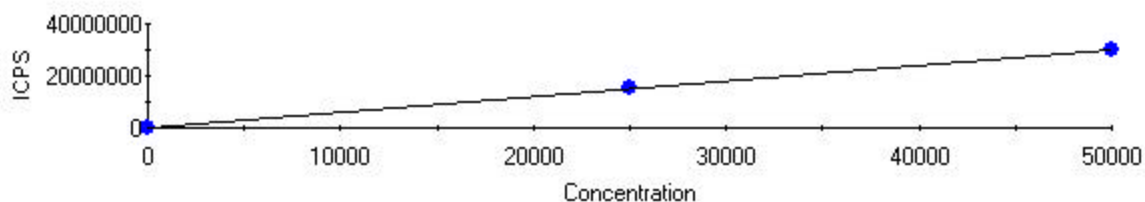
Intercept CPS=-474.328060 Intercept Conc=-0.319630
Sensitivity=1483.988870 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	-474.33	0.00
STD2-523426,	100.000	99.203	0.797	146741.08	0.80
STD3-529839,	200.000	200.399	0.399	296915.18	0.20

55Mn FQ Block 1

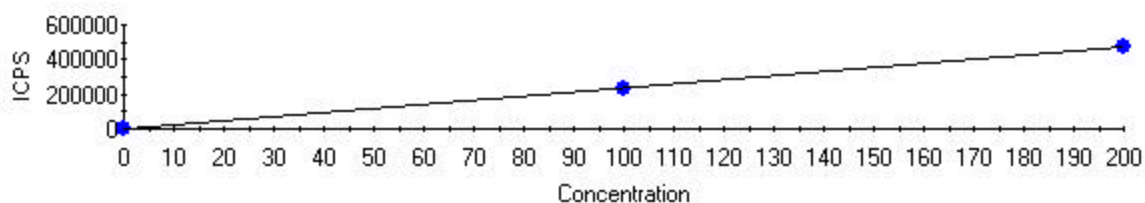
Intercept CPS=9625.971113 Intercept Conc=0.698884
Sensitivity=13773.355747 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	9625.97	0.00
STD2-523426,	500.000	503.546	3.546	6945149.85	0.71
STD3-529839,	1000.000	998.227	1.773	13758558.71	0.18

56Fe FQ Block 1

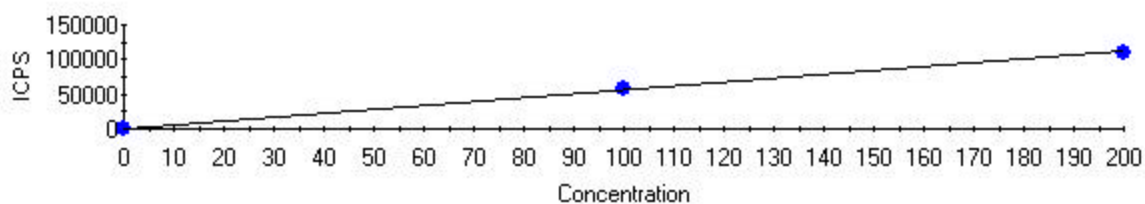
Intercept CPS=8208.619847 Intercept Conc=13.575721
Sensitivity=604.654434 Correlation Coeff=0.999950

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	8208.62	0.00
STD2-523426,	25000.000	25343.607	343.607	15332333.18	1.37
STD3-529839,	50000.000	49828.196	171.804	30137048.45	0.34

59Co FQ Block 1

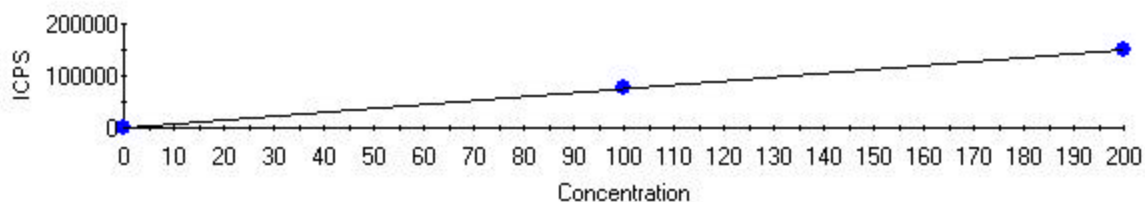
Intercept CPS=61.137032 Intercept Conc=0.025975
Sensitivity=2353.644728 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	61.14	0.00
STD2-523426,	100.000	100.405	0.405	236379.35	0.41
STD3-529839,	200.000	199.797	0.203	470313.21	0.10

60Ni FQ Block 1

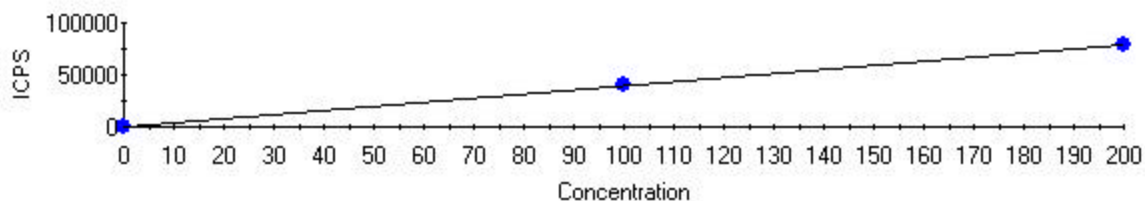
Intercept CPS=63.297373 Intercept Conc=0.113764
Sensitivity=556.393723 Correlation Coeff=0.999888

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	63.30	0.00
STD2-523426,	100.000	102.067	2.067	56852.83	2.07
STD3-529839,	200.000	198.966	1.034	110766.96	0.52

65Cu FQ Block 1

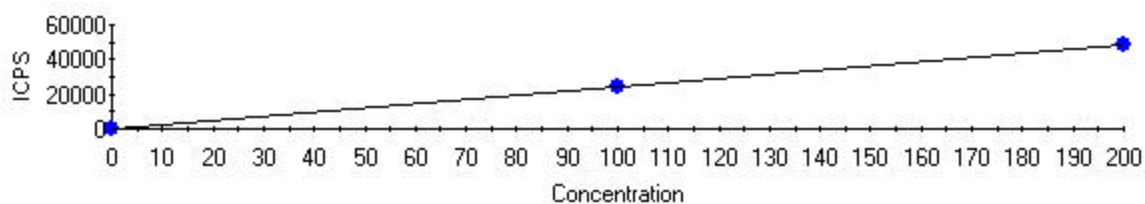
Intercept CPS=241.099819 Intercept Conc=0.322177
Sensitivity=748.345175 Correlation Coeff=0.999796

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	241.10	0.00
STD2-523426,	100.000	102.778	2.778	77154.54	2.78
STD3-529839,	200.000	198.611	1.389	148870.67	0.69

66Zn FQ Block 1

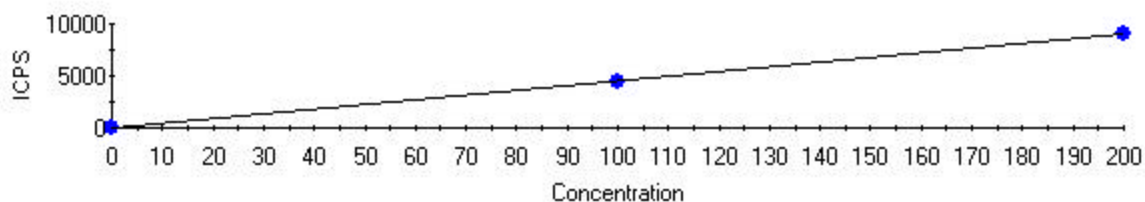
Intercept CPS=363.338024 Intercept Conc=0.930824
Sensitivity=390.339995 Correlation Coeff=0.999826

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	363.34	0.00
STD2-523426,	100.000	102.565	2.565	40398.74	2.57
STD3-529839,	200.000	198.717	1.283	77930.64	0.64

75As FQ Block 1

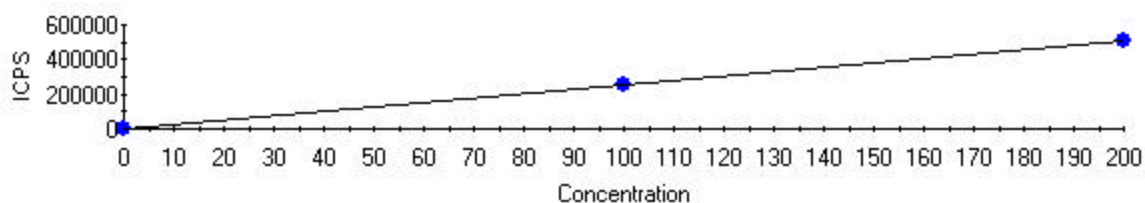
Intercept CPS=466.937798 Intercept Conc=1.947137
Sensitivity=239.807322 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	466.94	0.00
STD2-523426,	100.000	100.141	0.141	24481.52	0.14
STD3-529839,	200.000	199.929	0.071	48411.48	0.04

78Se FQ Block 1

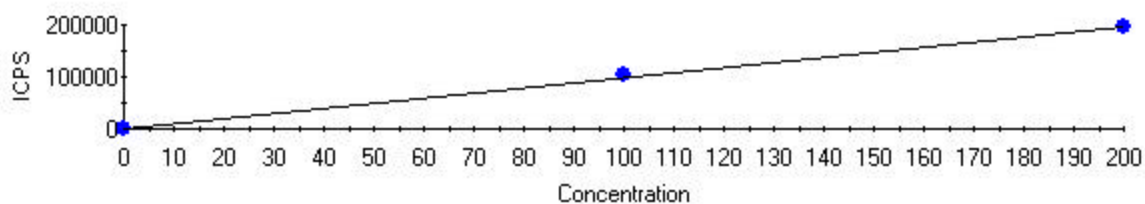
Intercept CPS=12.478687 Intercept Conc=0.278545
Sensitivity=44.799463 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	12.48	0.00
STD2-523426,	100.000	99.759	0.241	4481.63	0.24
STD3-529839,	200.000	200.120	0.120	8977.77	0.06

88Sr FQ Block 1

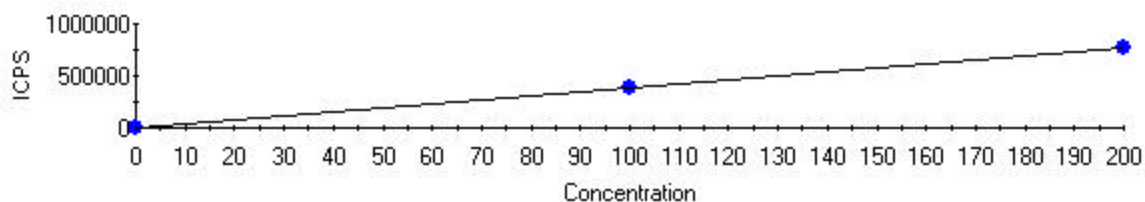
Intercept CPS=360.040354 Intercept Conc=0.141315
Sensitivity=2547.777752 Correlation Coeff=0.999910

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	360.04	0.00
STD2-523426,	100.000	98.133	1.867	250380.24	1.87
STD3-529839,	200.000	200.934	0.934	512294.38	0.47

95Mo FQ Block 1

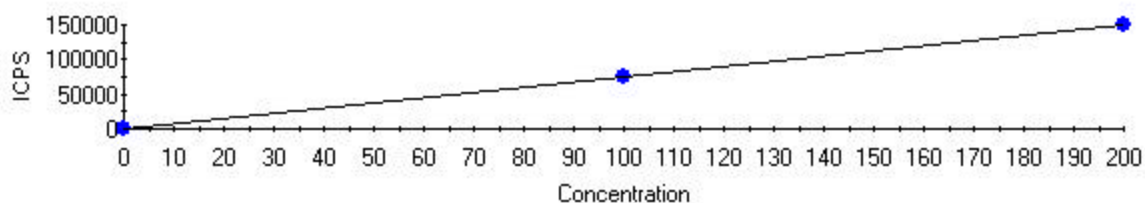
Intercept CPS=458.946006 Intercept Conc=0.465421
Sensitivity=986.088862 Correlation Coeff=0.999551

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	458.95	0.00
STD2-523426,	100.000	104.110	4.110	103120.51	4.11
STD4-482466,	200.000	197.945	2.055	195650.38	1.03

107Ag FQ Block 1

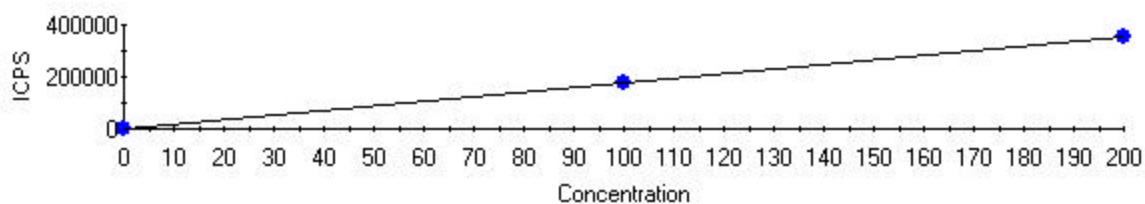
Intercept CPS=76.657285 Intercept Conc=0.020082
Sensitivity=3817.252007 Correlation Coeff=0.999898

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	76.66	0.00
STD2-523426,	100.000	101.971	1.971	389327.07	1.97
STD3-529839,	200.000	199.014	0.986	759764.45	0.49

111Cd FQ Block 1

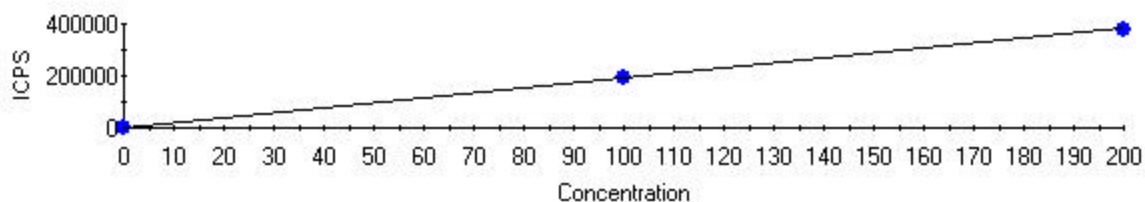
Intercept CPS=14.079851 Intercept Conc=0.018884
Sensitivity=745.601273 Correlation Coeff=0.999938

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	14.08	0.00
STD2-523426,	100.000	101.540	1.540	75722.24	1.54
STD3-529839,	200.000	199.230	0.770	148560.32	0.38

118Sn FQ Block 1

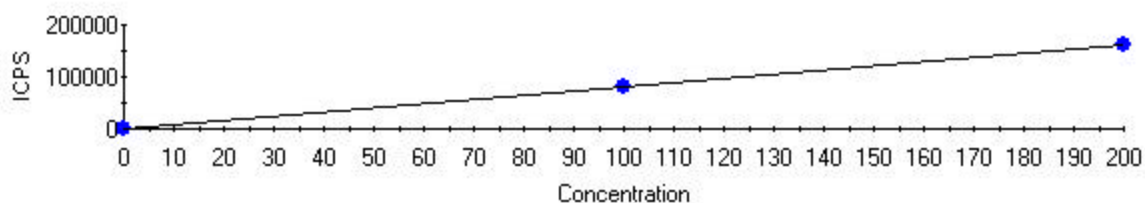
Intercept CPS=293.340429 Intercept Conc=0.165917
Sensitivity=1767.989713 Correlation Coeff=0.999991

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	293.34	0.00
STD2-523426,	100.000	100.578	0.578	178114.80	0.58
STD4-482466,	200.000	199.711	0.289	353380.04	0.14

121Sb FQ Block 1

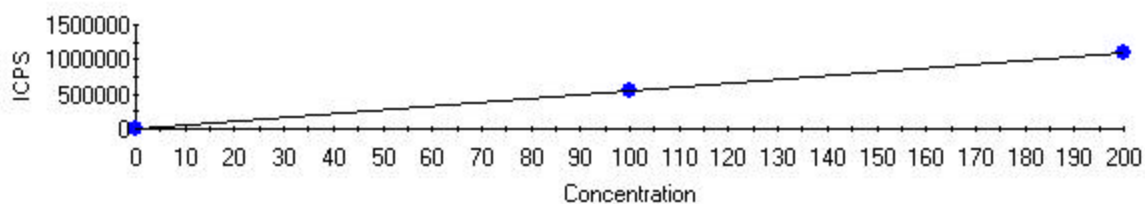
Intercept CPS=133.273559 Intercept Conc=0.069998
Sensitivity=1903.961872 Correlation Coeff=0.999930

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	133.27	0.00
STD2-523426,	100.000	101.633	1.633	193637.77	1.63
STD4-482466,	200.000	199.184	0.816	379371.49	0.41

137Ba FQ Block 1

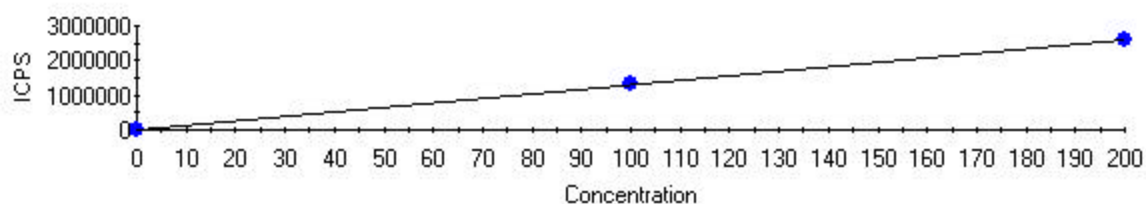
Intercept CPS=47.800158 Intercept Conc=0.059792
Sensitivity=799.434218 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	47.80	0.00
STD2-523426,	100.000	99.813	0.187	79841.94	0.19
STD3-529839,	200.000	200.093	0.093	160009.28	0.05

182W FQ Block 1

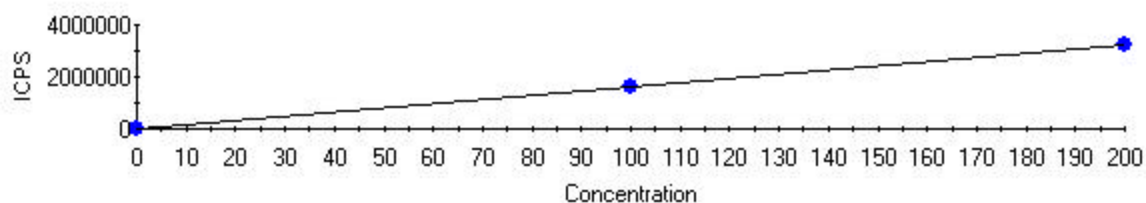
Intercept CPS=2082.054107 Intercept Conc=0.381498
Sensitivity=5457.570231 Correlation Coeff=0.999861

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	2082.05	0.00
STD2-523426,	100.000	102.298	2.298	560379.68	2.30
STD4-482466,	200.000	198.851	1.149	1087325.80	0.57

205Tl FQ Block 1

Intercept CPS=4830.392774 Intercept Conc=0.370048
Sensitivity=13053.413552 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	4830.39	0.00
STD2-523426,	100.000	99.753	0.247	1306950.88	0.25
STD3-529839,	200.000	200.123	0.123	2617123.54	0.06

208Pb FQ Block 1

Intercept CPS=1707.760533 Intercept Conc=0.106290
Sensitivity=16066.980697 Correlation Coeff=0.999983

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	1707.76	0.00
STD2-523426,	100.000	100.795	0.795	1621185.04	0.80
STD3-529839,	200.000	199.602	0.398	3208714.30	0.20

Dilution Corrected Concentrations

ICISM=6020 6/29/2012 08:07:51

User Pre -dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		100.000%	-0.000	0.000
%RSD		12.649	0.000	0.000
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		100.000%	100.000%	0.000
%RSD		1.955	0.605	0.000
Run	Time	51V	52Cr	53Cr
		ppb	ppb	ppb
X		0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	72Ge	75As	77Ar
		ppb	ppb	ppb
X		100.000%	-0.000	-0.000
%RSD		0.732	0.000	0.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	105Pd	107Ag	108Mo
		ppb	ppb	ppb
X		0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.000	100.000%	0.000
%RSD		0.000	0.563	0.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.000%	0.000	0.000
%RSD		0.732	0.000	0.000
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.000	0.000	
%RSD		0.000	0.000	

STD2-523426, 6/29/2012 08:13:54

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		82.538%	99.800	99.230
%RSD		11.532	2.662	4.838
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>±50310.000</u>	50340.000	511.600
%RSD		<u>±0.715</u>	1.585	1.990
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>±0.000</u>	<u>±50010.000</u>	49990.000
%RSD		<u>±0.000</u>	<u>±1.299</u>	1.448
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>±93.254%</u>	96.830%	106.100
%RSD		<u>±0.854</u>	1.189	1.158
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.660	99.200	6.282
%RSD		1.215	0.852	12.330
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>±503.500</u>	<u>±25340.000</u>	100.400
%RSD		<u>±1.271</u>	<u>±0.980</u>	1.215
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.100	102.800	102.600
%RSD		0.095	0.936	0.764
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		94.818%	100.100	-0.716
%RSD		1.184	0.304	16.570
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.760	98.130	104.100
%RSD		0.671	0.410	0.569
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	102.000	79.400
%RSD		0.000	0.529	3.173
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		101.500	95.550%	100.600
%RSD		1.129	0.398	0.531
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.600	99.810	0.000
%RSD		0.690	0.368	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		97.701%	102.300	99.750
%RSD		0.282	1.215	1.163
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		100.800	0.000	
%RSD		0.860	0.000	

STD3-529839, 6/29/2012 08:21:07

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		74.633%	M 200.100	0.229
%RSD		12.906	M 2.829	45.630
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 99840.000	M 99830.000	994.200
%RSD		TM 1.029	M 0.225	0.536
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	TM 100000.000	M 100000.000
%RSD		T 0.000	TM 0.750	M 1.294
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 89.823%	92.548%	0.091
%RSD		T 0.523	0.848	272.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 200.200	M 200.400	14.380
%RSD		M 0.800	M 1.011	4.725
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 998.200	TM 49830.000	M 199.800
%RSD		TM 1.368	TM 0.572	M 0.790
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 199.000	M 198.600	198.700
%RSD		M 0.703	M 0.779	0.609
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.360%	M 199.900	-1.332
%RSD		0.486	M 0.426	24.420
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 200.100	M 200.900	0.308
%RSD		M 0.346	M 0.685	2.499
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	199.000	96.440
%RSD		0.000	0.186	72.730
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 199.200	91.771%	0.046
%RSD		M 0.547	0.994	14.560
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.114	M 200.100	0.000
%RSD		28.340	M 0.495	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.839%	0.190	M 200.100
%RSD		0.487	21.300	M 0.242
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		M 199.600	0.000	
%RSD		M 0.390	0.000	

STD4-482466, 6/29/2012 08:28:28

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		91.052%	0.062	M 200.400
%RSD		12.418	22.710	M 4.768
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		47.190	41.180	5.396
%RSD		15.740	19.430	10.290
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	17.620	5.116
%RSD		±0.000	3.253	88.770
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±97.268%	99.203%	M 196.900
%RSD		±1.933	1.131	M 3.831
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.108	0.003	0.657
%RSD		133.400	3419.000	54.010
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.769	33.550	0.096
%RSD		1.983	9.259	3.964
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.135	0.251	0.523
%RSD		37.780	5.852	1.637
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		99.558%	0.180	-0.420
%RSD		0.569	18.710	13.160
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.014	0.305	197.900
%RSD		226.600	7.016	0.182
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.077	9.694
%RSD		0.000	10.900	39.340
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.021	98.512%	M 199.700
%RSD		150.500	0.698	M 0.405
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		199.200	0.215	0.000
%RSD		0.347	7.210	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.170%	198.900	0.506
%RSD		0.659	0.210	8.773
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.131	0.000	
%RSD		6.521	0.000	

ICV-529845, 6/29/2012 08:34:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		83.640%	100.127%	103.607%
%RSD		13.215	3.310	5.689
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>100.795%</u>	101.384%	102.817%
%RSD		<u>1.454</u>	1.279	1.533
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>99.896%</u>	99.838%
%RSD		<u>0.000</u>	<u>1.340</u>	1.013
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>95.064%</u>	97.973%	104.225%
%RSD		<u>1.210</u>	1.157	1.635
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		98.497%	98.841%	4.455
%RSD		1.089	0.574	45.160
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>101.006%</u>	<u>100.701%</u>	99.562%
%RSD		<u>0.608</u>	<u>0.662</u>	0.779
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.362%	101.453%	103.607%
%RSD		1.186	0.141	1.738
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.003%	99.926%	-0.738
%RSD		0.658	0.550	3.178
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.213%	96.586%	103.336%
%RSD		0.485	0.713	0.354
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	103.821%	43.960
%RSD		0.000	0.746	37.910
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		102.482%	96.006%	101.350%
%RSD		0.626	0.474	2.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		104.899%	99.975%	0.000
%RSD		1.115	0.932	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.837%	100.355%	99.501%
%RSD		0.488	0.313	0.651
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		101.717%	0.000	
%RSD		0.528	0.000	

ICB 6/29/2012 08:41:29 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		98.200%	0.034	0.678
%RSD		13.816	18.390	35.770
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11.420	8.265	0.702
%RSD		17.870	39.710	55.520
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	17.910	9.203
%RSD		±0.000	22.220	90.830
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±100.928%	100.861%	0.022
%RSD		±1.599	0.476	661.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.208	-0.051	-0.661
%RSD		82.270	71.580	82.850
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.120	4.696	0.025
%RSD		35.510	38.510	18.880
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.067	-0.008	0.104
%RSD		82.550	639.900	78.070
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		100.601%	0.133	-0.019
%RSD		0.379	23.140	230.300
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.066	0.016	0.200
%RSD		54.740	34.930	18.730
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.013	-0.287
%RSD		0.000	6.789	394.500
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.012	100.596%	0.028
%RSD		78.130	0.434	97.700
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.067	0.037	0.000
%RSD		25.770	64.930	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.545%	0.242	0.216
%RSD		0.470	15.480	16.390
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.023	0.000	
%RSD		15.650	0.000	

CRI-548044, 6/29/2012 08:47:09 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		95.500%	97.526%	96.187%
%RSD		13.591	5.789	13.090
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		110.804%	103.348%	107.103%
%RSD		1.320	2.457	3.150
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	102.655%	95.818%
%RSD		10.000	1.018	2.527
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		97.207%	97.650%	94.460%
%RSD		1.186	1.276	7.695
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		91.854%	107.823%	1.044
%RSD		4.086	2.078	59.520
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		236.230%	136.381%	98.399%
%RSD		2.260	1.664	1.330
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		120.490%	110.768%	105.375%
%RSD		5.769	2.248	2.057
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.778%	101.005%	-0.120
%RSD		0.479	2.555	26.560
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		87.870%	91.874%	98.547%
%RSD		8.050	1.034	2.159
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	106.288%	-2.975
%RSD		0.000	5.009	163.500
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		115.560%	96.968%	95.919%
%RSD		9.285	0.412	2.281
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		98.042%	96.136%	0.000
%RSD		2.795	3.458	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.418%	92.930%	100.647%
%RSD		0.470	1.793	0.747
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		106.946%	0.000	
%RSD		0.813	0.000	

ICSA-529846, 6/29/2012 08:52:49 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		69.440%	-0.003	-0.246
%RSD		12.542	238.900	33.480
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>151630.000</u>	51780.000	<u>M50450.000</u>
%RSD		<u>10.683</u>	1.640	<u>M0.508</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>147890.000</u>	48660.000
%RSD		<u>10.000</u>	<u>1.558</u>	1.244
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		81.682%	81.082%	<u>M1041.000</u>
%RSD		0.225	0.371	<u>M0.975</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.094	0.376	-1.861
%RSD		374.800	6.246	42.180
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.059	<u>TM51070.000</u>	0.090
%RSD		28.830	<u>TM0.887</u>	13.280
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.414	0.904	1.882
%RSD		9.626	7.837	7.519
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		82.993%	0.345	-0.247
%RSD		0.468	33.820	24.490
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.020	0.159	<u>M1034.000</u>
%RSD		258.400	6.214	<u>M0.268</u>
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.019	69.590
%RSD		0.000	20.560	5.914
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.325	85.501%	0.082
%RSD		4.480	0.597	31.720
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.113	0.063	0.000
%RSD		5.421	58.900	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.099%	0.039	-0.062
%RSD		0.901	88.810	14.550
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.138	0.000	
%RSD		4.276	0.000	

ICSAB-513311, 6/29/2012 08:58:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		60.022%	103.535%	103.939%
%RSD		13.425	4.776	7.213
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>101.459%</u>	101.769%	<u>M 97.826%</u>
%RSD		<u>0.925</u>	0.326	<u>M 0.860</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>0.000</u>	<u>93.721%</u>	96.970%
%RSD		<u>0.000</u>	<u>1.121</u>	0.883
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		80.379%	82.959%	<u>M 104.119%</u>
%RSD		1.015	0.726	<u>M 0.772</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		98.061%	98.813%	7.630
%RSD		0.492	0.945	12.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		106.030%	<u>TM 102.692%</u>	97.331%
%RSD		1.201	<u>TM 0.402</u>	0.403
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		99.270%	97.220%	101.559%
%RSD		2.518	0.775	1.358
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.203%	96.871%	-0.887
%RSD		0.757	1.240	14.570
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		97.530%	94.045%	<u>M 103.250%</u>
%RSD		1.152	1.102	<u>M 0.462</u>
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	100.496%	98.680
%RSD		0.000	0.411	19.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		100.034%	88.359%	101.190%
%RSD		0.640	1.244	1.023
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		102.910%	100.029%	0.000
%RSD		1.139	0.472	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.807%	103.293%	103.337%
%RSD		1.059	0.472	0.818
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		107.239%	0.000	
%RSD		0.782	0.000	

CCV 6/29/2012 09:05:55 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		67.514%	102.658%	104.381%
%RSD		12.261	2.639	5.738
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		100.521%	100.786%	102.295%
%RSD		1.364	1.242	1.289
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	95.342%	97.866%
%RSD		0.000	4.062	3.907
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		86.336%	89.078%	102.459%
%RSD		2.104	1.560	2.527
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.639%	100.008%	5.004
%RSD		0.522	0.646	4.204
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		98.715%	102.652%	99.646%
%RSD		3.529	0.681	0.577
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.841%	102.628%	102.200%
%RSD		1.355	1.036	0.739
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.918%	100.507%	-0.763
%RSD		1.534	1.140	11.100
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.871%	98.713%	110.708%
%RSD		2.569	0.971	1.024
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	102.670%	54.790
%RSD		0.000	0.872	82.250
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		101.644%	91.653%	101.401%
%RSD		1.287	0.095	0.876
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.933%	99.225%	0.000
%RSD		0.854	0.631	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.585%	103.990%	100.428%
%RSD		0.902	0.707	0.240
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		103.632%	0.000	
%RSD		0.492	0.000	

CCB 6/29/2012 09:13:16 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		84.591%	0.021	0.432
%RSD		14.886	49.530	61.870
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11.940	7.648	3.355
%RSD		40.490	20.200	31.090
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	8.544	10.360
%RSD		±0.000	52.670	89.530
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±92.809%	94.764%	0.232
%RSD		±1.385	0.743	47.810
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.008	-0.050	0.359
%RSD		1258.000	115.400	10.240
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.087	8.614	0.023
%RSD		38.240	20.890	12.300
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.048	0.041	0.138
%RSD		95.900	142.000	65.370
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.242%	0.045	0.001
%RSD		0.923	94.740	1859.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.017	0.011	1.522
%RSD		183.000	10.870	2.374
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.019	-0.620
%RSD		0.000	23.490	79.650
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.018	96.794%	-0.001
%RSD		59.070	0.845	97.440
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.098	0.006	0.000
%RSD		34.200	301.300	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.822%	0.298	0.265
%RSD		0.795	6.984	6.195
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.029	0.000	
%RSD		13.380	0.000	

CRI-548044, 6/29/2012 09:18:57 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		83.771%	100.133%	94.415%
%RSD		14.806	3.935	9.795
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		110.406%	104.556%	105.263%
%RSD		1.179	4.654	2.565
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±106.314%	97.707%
%RSD		±0.000	±1.971	3.055
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±86.714%	89.375%	100.376%
%RSD		±1.218	1.360	15.370
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		97.434%	108.059%	-0.506
%RSD		5.516	1.541	138.100
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		231.070%	138.316%	100.159%
%RSD		1.089	4.849	1.987
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		126.928%	114.170%	104.861%
%RSD		6.647	6.952	0.783
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.334%	91.923%	-0.117
%RSD		0.352	8.146	42.240
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		103.624%	90.025%	103.840%
%RSD		2.690	0.889	0.554
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	111.150%	6.364
%RSD		0.000	4.730	78.870
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		107.751%	90.761%	95.450%
%RSD		10.720	0.622	1.241
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		104.309%	106.495%	0.000
%RSD		6.001	9.047	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.727%	94.896%	98.686%
%RSD		1.654	0.573	1.753
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		108.327%	0.000	
%RSD		1.524	0.000	

CCV 6/29/2012 09:24:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.816%	102.097%	101.818%
%RSD		13.129	3.500	4.351
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		100.679%	101.425%	103.136%
%RSD		0.455	0.458	1.242
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	100.167%	101.711%
%RSD		0.000	1.212	1.689
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		84.888%	93.094%	101.462%
%RSD		0.768	1.554	2.423
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.749%	100.234%	6.544
%RSD		0.385	0.920	6.498
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		101.730%	101.941%	100.689%
%RSD		1.333	0.930	1.200
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.317%	102.452%	104.440%
%RSD		0.633	1.244	1.026
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.865%	100.817%	-0.659
%RSD		1.563	0.329	23.670
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.537%	98.818%	105.933%
%RSD		0.903	1.387	1.067
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	103.930%	37.420
%RSD		0.000	0.178	98.890
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		103.843%	92.655%	101.422%
%RSD		1.542	1.813	0.445
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		102.846%	99.865%	0.000
%RSD		0.893	1.297	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.741%	103.472%	99.763%
%RSD		1.898	1.234	1.006
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		102.747%	0.000	
%RSD		0.860	0.000	

CCB 6/29/2012 09:31:59 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		92.626%	0.027	0.309
%RSD		14.916	21.080	41.550
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		19.560	12.320	4.362
%RSD		13.490	48.130	42.080
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	22.350	21.710
%RSD		±0.000	23.600	31.220
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±97.128%	97.478%	0.197
%RSD		±1.859	0.284	36.990
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.162	-0.067	0.285
%RSD		130.100	120.700	211.900
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.169	10.980	0.036
%RSD		11.530	14.080	11.110
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.084	0.037	0.056
%RSD		21.390	92.990	165.600
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		98.251%	-0.004	-0.065
%RSD		0.902	1166.000	58.100
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.005	0.015	0.415
%RSD		2837.000	78.160	11.550
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.027	-0.623
%RSD		0.000	37.920	78.490
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.036	98.017%	0.013
%RSD		69.260	1.005	52.970
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.062	0.032	0.000
%RSD		20.030	76.440	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.547%	0.206	0.221
%RSD		0.366	15.000	15.140
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.038	0.000	
%RSD		26.560	0.000	

mb 240-49234/1-a, 6/29/2012 09:37:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		90.694%	-0.018	0.653
%RSD		11.792	22.660	24.350
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		77.210	26.620	4.888
%RSD		2.519	22.350	19.330
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	23.040	187.100
%RSD		±0.000	5.938	3.680
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±95.858%	96.658%	0.274
%RSD		±1.258	0.530	26.110
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.117	0.950	0.307
%RSD		283.200	11.990	294.700
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.874	47.000	0.014
%RSD		2.895	2.309	35.760
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.545	0.503	10.540
%RSD		17.500	25.450	0.804
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		94.516%	0.042	0.196
%RSD		0.721	213.000	12.190
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.006	0.456	0.508
%RSD		791.300	5.978	17.790
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.010	-0.748
%RSD		0.000	29.960	100.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.007	95.905%	20.190
%RSD		128.900	0.427	1.250
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.031	1.703	0.000
%RSD		69.700	7.842	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.379%	0.092	0.173
%RSD		0.552	18.280	18.900
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		4.256	0.000	
%RSD		1.218	0.000	

Ics 240-49234/2-a, 6/29/2012 09:43:11 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		74.851%	88.560	92.980
%RSD		13.540	4.314	7.162
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10730.000	9959.000	M 9714.000
%RSD		1.910	2.903	M 2.025
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	9213.000	9720.000
%RSD		0.000	4.863	3.867
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		87.359%	91.514%	96.180
%RSD		2.108	1.713	3.063
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		94.330	96.320	14.430
%RSD		1.772	0.943	5.465
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		103.300	10030.000	97.600
%RSD		3.660	1.055	0.802
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		100.100	100.900	103.900
%RSD		1.333	0.902	0.803
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.801%	85.440	-0.362
%RSD		0.780	0.802	26.980
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		78.760	93.640	100.200
%RSD		2.907	1.374	1.108
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	100.500	6.739
%RSD		0.000	0.296	713.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		91.710	91.541%	117.900
%RSD		0.078	0.165	0.499
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		91.070	96.900	0.000
%RSD		1.157	0.928	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.233%	92.300	96.660
%RSD		1.163	0.268	0.176
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		104.000	0.000	
%RSD		0.227	0.000	

240-12722 -b-1-a, 6/29/2012 09:49:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		80.303%	2.650	37.910
%RSD		13.110	0.620	7.550
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1056.000	7746.000	M 37980.000
%RSD		1.148	1.465	M 0.769
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±7513.000	38610.000
%RSD		±0.000	±1.976	0.944
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±101.709%	104.438%	M 957.300
%RSD		±1.106	1.137	M 0.489
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		137.500	117.800	7.813
%RSD		1.505	0.230	25.990
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1014.000	TM 112400.000	32.510
%RSD		TM 1.059	TM 1.678	1.842
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		60.190	147.300	M 412.000
%RSD		0.722	0.622	M 0.129
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		101.153%	77.930	0.440
%RSD		0.384	1.531	26.110
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.925	M 321.000	6.913
%RSD		10.200	M 0.705	1.170
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.499	-50.090
%RSD		0.000	7.318	28.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.196	103.946%	15.380
%RSD		7.011	1.166	1.061
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		2.111	154.500	0.000
%RSD		1.679	1.460	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		114.457%	0.590	0.770
%RSD		0.937	7.136	4.976
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		M 209.400	0.000	
%RSD		M 0.471	0.000	

240-12722 -b-1-b ms, 6/29/2012 09:54:47 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		62.719%	96.000	129.300
%RSD		11.923	2.926	5.558
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11550.000	17630.000	M51270.000
%RSD		0.736	0.780	M0.519
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T0.000	T16840.000	56170.000
%RSD		T0.000	T1.048	0.586
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T85.061%	88.816%	M1137.000
%RSD		T0.401	0.499	M1.132
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M234.300	M223.300	20.120
%RSD		M0.652	M0.218	10.340
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM1074.000	TM132300.000	127.800
%RSD		TM1.132	TM0.572	0.801
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		150.400	M247.600	M478.600
%RSD		0.378	M0.692	M0.626
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.768%	178.800	-0.016
%RSD		0.482	1.256	494.400
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		76.100	M469.600	104.600
%RSD		0.625	M0.594	0.286
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	95.910	-99.300
%RSD		0.000	0.214	80.850
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		91.590	91.208%	106.200
%RSD		0.741	0.792	0.394
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		41.820	M260.900	0.000
%RSD		0.962	M1.234	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		105.162%	68.680	92.140
%RSD		1.236	0.741	1.161
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		M291.000	0.000	
%RSD		M1.142	0.000	

240-12722 -b-1-c msd, 6/29/2012 10:01:04 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		74.350%	89.990	121.100
%RSD		12.792	3.723	6.324
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11050.000	16860.000	TM 49410.000
%RSD		1.813	0.311	TM 1.325
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		TM 0.000	TM 15900.000	72960.000
%RSD		TM 0.000	TM 0.700	0.833
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		TM 88.282%	91.062%	^M 1090.000
%RSD		TM 0.580	1.314	^M 1.280
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		^M 216.300	^M 226.800	15.590
%RSD		^M 1.328	^M 1.107	8.271
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1046.000	TM 114700.000	121.800
%RSD		TM 0.514	TM 1.249	0.929
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		146.700	^M 299.500	^M 477.400
%RSD		0.478	^M 0.461	^M 1.173
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.859%	187.300	0.045
%RSD		0.589	0.476	214.200
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		79.650	^M 500.400	100.200
%RSD		1.192	^M 0.718	0.331
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	93.820	-6.726
%RSD		0.000	0.297	910.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		92.280	91.710%	104.400
%RSD		1.067	0.483	0.595
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		41.920	^M 249.900	0.000
%RSD		1.285	^M 0.893	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		103.027%	61.910	91.780
%RSD		0.347	0.896	0.765
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		^M 344.700	0.000	
%RSD		^M 0.477	0.000	

240-12722 -b-2-a, 6/29/2012 10:07:39 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		72.865%	2.216	29.150
%RSD		13.496	2.740	6.138
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1207.000	6277.000	M 30100.000
%RSD		0.955	0.577	M 0.515
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 6301.000	50820.000
%RSD		T 0.000	T 1.270	0.299
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 89.709%	92.902%	M 834.200
%RSD		T 1.000	0.522	M 1.490
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		97.870	183.300	17.050
%RSD		0.777	0.399	3.877
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1041.000	TM 94440.000	30.890
%RSD		TM 0.711	TM 0.143	0.503
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		51.550	M 346.400	M 371.000
%RSD		0.946	M 0.722	M 0.704
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.586%	151.700	0.375
%RSD		1.141	0.695	9.613
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.503	M 330.600	7.045
%RSD		4.502	M 0.853	4.785
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.371	-54.640
%RSD		0.000	5.965	2.071
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.182	94.154%	15.520
%RSD		5.318	0.579	1.840
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.383	153.000	0.000
%RSD		5.672	0.459	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		107.499%	0.617	0.688
%RSD		0.697	9.071	4.540
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		M 226.200	0.000	
%RSD		M 0.452	0.000	

240-12722 -b-3-a, 6/29/2012 10:13:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		67.862%	2.615	55.420
%RSD		13.443	5.804	6.383
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3244.000	12860.000	<u>TM</u> 59270.000
%RSD		2.065	0.625	<u>TM</u> 0.601
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>±</u> 0.000	<u>±</u> 13250.000	48750.000
%RSD		<u>±</u> 0.000	<u>±</u> 0.824	0.885
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>±</u> 94.735%	99.776%	<u>M</u> 1492.000
%RSD		<u>±</u> 0.451	0.649	<u>M</u> 0.946
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		199.200	147.100	12.650
%RSD		0.194	0.524	27.850
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>±</u> 803.400	<u>TM</u> 149500.000	32.070
%RSD		<u>±</u> 1.637	<u>TM</u> 0.569	2.035
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		63.490	139.200	<u>M</u> 726.400
%RSD		1.865	2.191	<u>M</u> 0.710
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.062%	60.710	0.387
%RSD		0.924	0.949	23.900
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.974	<u>M</u> 425.000	10.700
%RSD		11.020	<u>M</u> 0.800	2.295
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.595	-74.220
%RSD		0.000	2.046	14.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.074	98.929%	16.870
%RSD		6.229	1.167	1.234
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.443	<u>M</u> 214.900	0.000
%RSD		1.535	<u>M</u> 0.892	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		110.545%	0.428	0.869
%RSD		0.462	1.113	1.885
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		<u>M</u> 216.700	0.000	
%RSD		<u>M</u> 0.155	0.000	

240-12722 -b-4-a, 6/29/2012 10:18:56 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.294%	2.647	42.040
%RSD		12.995	4.860	7.083
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3155.000	10160.000	<u>TM 50170.000</u>
%RSD		0.445	1.301	<u>TM 4.250</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>TM 0.000</u>	<u>TM 9985.000</u>	<u>M 105200.000</u>
%RSD		<u>TM 0.000</u>	<u>TM 0.628</u>	<u>M 0.525</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>TM 88.377%</u>	90.540%	<u>M 1074.000</u>
%RSD		<u>TM 0.400</u>	0.522	<u>M 1.313</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		<u>M 201.700</u>	119.300	9.809
%RSD		<u>M 1.353</u>	1.223	19.420
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 1014.000</u>	<u>TM 133100.000</u>	31.930
%RSD		<u>TM 1.556</u>	<u>TM 1.104</u>	2.120
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		64.590	107.400	<u>M 361.700</u>
%RSD		1.299	0.778	<u>M 0.574</u>
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.664%	55.140	0.528
%RSD		0.839	0.909	19.940
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.069	<u>M 775.100</u>	6.316
%RSD		0.667	<u>M 0.472</u>	0.866
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.409	-46.290
%RSD		0.000	6.908	51.920
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.046	92.072%	12.580
%RSD		10.420	0.309	3.004
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.199	181.000	0.000
%RSD		2.447	0.968	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		104.534%	0.231	0.601
%RSD		0.705	8.055	2.193
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		174.100	0.000	
%RSD		0.360	0.000	

240-12722 -b-5-a, 6/29/2012 10:24:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		58.731%	2.626	43.340
%RSD		12.934	1.593	6.136
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1710.000	10920.000	M 51330.000
%RSD		2.092	0.709	M 0.652
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±7926.000	M 200100.000
%RSD		±0.000	±1.514	M 1.360
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		79.054%	80.636%	M 1556.000
%RSD		0.390	0.349	M 0.659
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		145.100	131.400	8.234
%RSD		1.073	0.486	11.110
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1084.000	TM 115500.000	32.110
%RSD		TM 1.724	TM 0.861	0.478
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		56.240	M 203.300	M 444.300
%RSD		1.082	M 1.286	M 0.988
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		77.427%	90.760	0.602
%RSD		1.581	1.224	24.640
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.799	M 650.300	10.770
%RSD		12.640	M 1.061	1.624
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.448	-78.870
%RSD		0.000	5.302	24.740
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.354	84.487%	18.120
%RSD		2.885	1.228	0.495
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.562	M 233.900	0.000
%RSD		3.506	M 0.548	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		97.352%	0.406	0.487
%RSD		0.360	2.431	3.589
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		M 332.900	0.000	
%RSD		M 0.579	0.000	

SD 240-12722 -b-5-a@5, 6/29/2012 10:30:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.737%	0.560	9.157
%RSD		14.347	2.928	11.160
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		325.400	2295.000	M 10590.000
%RSD		0.687	2.249	M 1.284
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 1660.000	41930.000
%RSD		T 0.000	T 1.366	2.023
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 85.483%	89.356%	M 313.500
%RSD		T 3.948	0.651	M 3.011
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		29.550	26.840	-1.211
%RSD		3.583	0.592	78.140
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		244.100	T 23720.000	6.461
%RSD		1.523	T 0.917	0.650
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		11.960	44.850	102.200
%RSD		3.412	1.156	0.832
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		88.019%	19.970	0.110
%RSD		0.693	1.204	130.900
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.523	126.100	1.936
%RSD		7.729	1.463	4.032
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.092	-12.490
%RSD		0.000	23.480	55.140
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.257	91.788%	3.591
%RSD		23.360	0.435	2.659
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.298	48.970	0.000
%RSD		3.140	1.886	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.741%	-0.123	-0.081
%RSD		0.796	11.370	7.449
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		71.990	0.000	
%RSD		1.429	0.000	

CCV 6/29/2012 10:35:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		68.709%	104.162%	103.409%
%RSD		13.179	4.282	6.078
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		±99.578%	100.364%	100.874%
%RSD		±0.633	0.819	0.530
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±98.188%	100.759%
%RSD		±0.000	±1.184	1.512
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±85.977%	91.813%	99.374%
%RSD		±0.662	0.822	3.442
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.210%	99.434%	7.263
%RSD		0.318	0.787	26.960
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		±101.948%	±100.833%	100.442%
%RSD		±1.782	±1.084	0.687
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.644%	102.043%	102.320%
%RSD		1.810	1.242	1.260
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.442%	100.985%	-0.679
%RSD		1.070	0.811	13.790
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		101.831%	99.438%	105.448%
%RSD		0.370	0.480	0.655
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	104.132%	56.580
%RSD		0.000	0.413	46.180
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		102.908%	91.142%	102.002%
%RSD		2.016	0.453	0.312
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		102.452%	99.715%	0.000
%RSD		0.106	0.527	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		97.626%	101.921%	98.700%
%RSD		0.411	0.295	0.197
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		101.447%	0.000	
%RSD		0.410	0.000	

CCB 6/29/2012 10:42:38 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		88.577%	-0.005	0.482
%RSD		14.353	213.800	45.130
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-10.630	-6.718	0.257
%RSD		0.293	25.850	53.960
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	-3.782	24.560
%RSD		± 0.000	23.240	13.430
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 95.093%	97.435%	0.100
%RSD		± 0.932	0.877	272.500
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.068	-0.130	-0.200
%RSD		360.300	40.630	73.430
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.165	0.349	-0.011
%RSD		8.463	299.500	47.200
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.010	-0.052	1.181
%RSD		185.900	90.550	4.598
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.424%	-0.052	-0.024
%RSD		0.730	250.500	43.850
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.082	-0.043	0.105
%RSD		55.620	32.230	46.500
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.003	-1.321
%RSD		0.000	102.400	54.500
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.000	97.111%	-0.008
%RSD		3079.000	0.462	270.900
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.040	0.004	0.000
%RSD		53.660	374.200	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.965%	0.165	0.096
%RSD		0.450	33.620	34.410
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.026	0.000	
%RSD		23.640	0.000	

240-12722 -b-6-a, 6/29/2012 10:49:04 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		41.507%	3.743	118.400
%RSD		12.312	2.300	3.736
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3036.000	38090.000	TM 108600.000
%RSD		0.886	0.453	TM 0.476
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 13850.000	TM 1374000.000
%RSD		T 0.000	T 1.711	TM 0.814
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		57.972%	57.067%	M 5452.000
%RSD		0.584	0.617	M 0.626
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 270.200	M 272.500	21.570
%RSD		M 0.571	M 0.269	13.480
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2877.000	TM 145200.000	48.070
%RSD		TM 1.656	TM 0.246	1.195
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		69.610	M 565.800	M 539.100
%RSD		1.530	M 0.514	M 0.789
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		54.303%	81.890	1.471
%RSD		0.791	0.883	22.120
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.624	M 1955.000	39.680
%RSD		3.493	M 0.737	1.684
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.875	-254.900
%RSD		0.000	4.060	13.330
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		2.201	63.317%	23.260
%RSD		4.788	1.409	1.008
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.269	M 627.000	0.000
%RSD		1.784	M 0.408	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		68.299%	2.812	0.415
%RSD		1.038	3.044	1.779
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		M 256.300	0.000	
%RSD		M 0.211	0.000	

240-12549 -d-10 -a@10, 6/29/2012 10:54:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		72.879%	0.006	106.100
%RSD		14.997	26.040	8.932
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 124000.000</u>	1756.000	344.000
%RSD		<u>TM 0.773</u>	2.638	1.166
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>1113.000</u>	6457.000
%RSD		<u>10.000</u>	<u>13.455</u>	0.679
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>85.941%</u>	92.315%	5.118
%RSD		<u>1.763</u>	0.449	24.210
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.697	0.274	-0.667
%RSD		62.640	37.890	151.400
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		12.790	586.500	0.272
%RSD		1.640	1.831	5.594
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.699	0.599	3.085
%RSD		11.140	13.900	8.587
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.271%	0.781	-0.008
%RSD		0.458	15.000	1247.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.147	175.600	0.192
%RSD		40.060	0.620	41.050
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-4.701
%RSD		0.000	296.500	52.750
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.084	90.755%	-0.002
%RSD		30.580	0.479	532.800
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.007	99.610	0.000
%RSD		119.400	0.916	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.313%	-0.173	-0.177
%RSD		0.382	10.290	2.625
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.334	0.000	
%RSD		4.474	0.000	

240-12549 -e-11-a@10, 6/29/2012 11:00:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.532%	0.003	84.690
%RSD		14.993	132.000	7.009
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 102500.000	1063.000	328.300
%RSD		TM 1.705	0.498	1.939
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	1038.000	3933.000
%RSD		10.000	1.994	1.545
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		88.467%	91.571%	3.051
%RSD		1.749	1.285	12.360
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.377	0.216	0.279
%RSD		39.200	26.480	161.700
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		6.968	525.600	0.213
%RSD		0.533	1.140	7.220
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.566	0.454	2.927
%RSD		6.257	1.813	7.445
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.581%	0.975	-0.074
%RSD		0.784	17.490	57.600
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.029	114.500	0.341
%RSD		163.000	1.472	1.297
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.010	-0.468
%RSD		0.000	55.720	729.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.007	89.891%	-0.030
%RSD		229.400	0.986	58.160
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.049	63.860	0.000
%RSD		34.010	1.984	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.722%	-0.144	-0.209
%RSD		0.451	15.110	2.011
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.289	0.000	
%RSD		6.694	0.000	

240-12657 -b-5-a@5, 6/29/2012 11:06:00 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.379%	-0.013	5.379
%RSD		13.370	35.620	16.020
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 155000.000</u>	5845.000	34.580
%RSD		<u>TM 0.544</u>	1.359	2.859
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>1 0.000</u>	537.000	21370.000
%RSD		<u>1 0.000</u>	4.435	3.532
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>1 86.237%</u>	86.419%	1.063
%RSD		<u>1 2.318</u>	0.366	42.500
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.127	-0.118	-0.376
%RSD		26.380	58.000	91.830
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		29.190	1112.000	0.012
%RSD		3.472	0.536	101.600
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.216	0.217	5.300
%RSD		43.710	50.820	9.180
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.480%	0.208	0.075
%RSD		0.282	72.340	56.580
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.079	99.030	2.005
%RSD		155.800	0.239	3.889
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.011	-2.923
%RSD		0.000	29.210	29.010
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.016	85.048%	-0.041
%RSD		31.950	0.978	10.730
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.016	23.710	0.000
%RSD		152.200	1.993	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.823%	-0.230	-0.236
%RSD		1.191	5.645	3.153
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.077	0.000	
%RSD		4.558	0.000	

mb 240-49261/1 -a, 6/29/2012 11:11:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		85.222%	-0.020	1.497
%RSD		15.908	13.510	19.300
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		121.100	38.530	3.569
%RSD		26.720	30.750	48.100
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	13.980	195.000
%RSD		±0.000	10.230	2.330
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±87.629%	90.049%	0.202
%RSD		±2.231	1.128	99.220
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.203	-0.116	-0.008
%RSD		116.500	45.880	7781.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.065	2.822	-0.019
%RSD		25.610	71.280	12.590
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.107	0.391	18.470
%RSD		80.000	6.675	3.669
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		88.973%	0.014	0.311
%RSD		0.783	547.600	7.112
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.150	0.503	-0.321
%RSD		46.090	12.850	2.189
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.012	-1.404
%RSD		0.000	27.980	56.080
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.016	90.129%	-0.003
%RSD		18.210	1.379	587.100
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.036	0.896	0.000
%RSD		24.830	10.120	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.927%	-0.252	-0.238
%RSD		0.253	2.815	0.750
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.056	0.000	
%RSD		12.830	0.000	

Ics 240-49261/2-a, 6/29/2012 11:17:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		83.095%	M 924.300	93.970
%RSD		14.042	M 4.825	7.557
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10410.000	9806.000	M 9664.000
%RSD		1.192	1.789	M 1.011
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 9247.000	9855.000
%RSD		T 0.000	T 1.643	0.967
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 85.217%	91.836%	98.900
%RSD		T 1.923	0.886	1.008
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 931.400	M 943.300	76.340
%RSD		M 1.575	M 1.461	3.752
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 960.800	T 9488.000	M 932.600
%RSD		T 0.029	T 0.794	M 0.373
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 969.600	M 975.300	M 1001.000
%RSD		M 0.639	M 0.490	M 1.126
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.810%	M 928.700	-4.037
%RSD		0.792	M 0.107	7.558
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 944.900	M 879.100	92.740
%RSD		M 0.357	M 0.857	1.245
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	97.990	374.700
%RSD		0.000	0.323	17.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 948.800	92.336%	93.370
%RSD		M 0.521	0.630	0.707
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		93.580	M 913.100	0.000
%RSD		0.884	M 0.197	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.778%	89.900	M 240.200
%RSD		0.880	0.342	M 0.762
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		T 914.200	0.000	
%RSD		T 0.431	0.000	

240-12676 -d-2-a, 6/29/2012 11:24:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		83.041%	0.014	88.840
%RSD		14.917	21.630	7.692
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		33180.000	48210.000	1.625
%RSD		1.000	0.744	59.850
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	2082.000	118700.000
%RSD		0.000	1.634	0.620
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		90.305%	92.712%	0.446
%RSD		1.551	0.874	61.690
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.182	-0.065	2.865
%RSD		119.900	59.890	6.747
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		124.000	2776.000	0.346
%RSD		0.321	0.697	11.550
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.523	0.301	6.126
%RSD		7.801	22.570	0.217
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.102%	4.072	0.421
%RSD		0.473	2.988	6.738
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.372	700.300	9.773
%RSD		32.220	0.375	0.864
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.010	-0.694
%RSD		0.000	14.650	244.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.007	89.691%	0.055
%RSD		214.300	0.232	52.780
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.118	169.800	0.000
%RSD		28.740	0.955	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		91.808%	0.455	0.318
%RSD		0.969	15.260	13.620
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.058	0.000	
%RSD		24.300	0.000	

SD 240-12676 -d-2-a@5, 6/29/2012 11:30:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.427%	0.018	18.610
%RSD		14.737	111.700	7.396
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		7259.000	9953.000	5.403
%RSD		1.008	0.202	18.200
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	443.100	23960.000
%RSD		±0.000	2.540	1.499
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±94.237%	97.273%	-0.043
%RSD		±1.672	0.727	257.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.272	-0.109	2.914
%RSD		32.020	20.940	19.740
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		24.740	554.900	0.079
%RSD		0.544	1.163	14.240
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.314	0.025	1.663
%RSD		14.270	266.200	4.952
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.280%	0.941	0.065
%RSD		0.271	7.065	136.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.019	138.000	1.695
%RSD		387.300	0.807	9.544
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.014	-3.489
%RSD		0.000	13.680	14.470
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.003	94.029%	-0.036
%RSD		197.300	0.826	13.010
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.005	34.040	0.000
%RSD		317.200	2.316	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.526%	-0.032	-0.007
%RSD		0.846	38.740	207.500
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.004	0.000	
%RSD		155.800	0.000	

240-12676 -d-2-b ms, 6/29/2012 11:36:00 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.957%	M 952.300	M 189.200
%RSD		13.458	M 4.410	M 7.687
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 44210.000	59630.000	M 9779.000
%RSD		T 0.279	0.113	M 0.478
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 11370.000	M 129600.000
%RSD		T 0.000	T 4.010	M 3.270
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 84.273%	85.553%	97.810
%RSD		T 2.442	0.080	2.549
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 963.600	M 971.900	82.040
%RSD		M 0.713	M 0.459	9.188
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1069.000	T 12290.000	M 959.000
%RSD		TM 3.407	T 0.939	M 0.716
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 970.100	M 955.400	M 961.600
%RSD		M 0.306	M 0.856	M 0.388
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.580%	M 960.800	-4.676
%RSD		0.810	M 0.382	6.793
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 951.500	TM 1580.000	107.500
%RSD		M 1.156	TM 0.764	0.850
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.800	552.600
%RSD		0.000	1.020	31.810
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 957.600	85.901%	95.960
%RSD		M 0.694	1.165	0.605
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		96.900	M 1119.000	0.000
%RSD		1.432	M 0.470	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		88.497%	97.010	M 251.700
%RSD		0.923	0.934	M 0.375
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 937.700	0.000	
%RSD		TM 0.477	0.000	

240-12676 -d-2-c msd, 6/29/2012 11:43:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		75.486%	M 965.400	M 190.700
%RSD		11.644	M 3.029	M 4.769
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 44560.000	59870.000	M 9846.000
%RSD		T 0.537	0.170	M 0.449
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 11310.000	M 128100.000
%RSD		T 0.000	T 1.321	M 1.037
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		87.166%	87.231%	99.830
%RSD		0.754	0.442	2.328
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 966.300	M 975.400	87.430
%RSD		M 0.571	M 0.661	1.704
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1054.000	T 12390.000	M 961.300
%RSD		TM 0.919	T 1.198	M 1.691
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 976.800	M 965.300	M 974.800
%RSD		M 0.600	M 0.517	M 0.140
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.206%	M 974.300	-3.949
%RSD		0.488	M 0.443	11.830
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 967.300	TM 1598.000	109.700
%RSD		M 0.288	TM 0.538	0.083
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	98.540	554.300
%RSD		0.000	0.175	36.290
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 971.300	86.476%	97.910
%RSD		M 0.636	0.352	0.605
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		99.310	M 1145.000	0.000
%RSD		0.774	M 0.346	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.588%	98.020	M 250.700
%RSD		0.668	0.314	M 0.736
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 939.600	0.000	
%RSD		TM 0.650	0.000	

CCV 6/29/2012 11:50:45 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		81.515%	101.860%	103.336%
%RSD		14.350	5.506	5.341
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		100.768%	98.001%	101.959%
%RSD		1.343	1.952	1.703
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	98.735%	99.956%
%RSD		0.000	1.390	0.640
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		92.183%	95.313%	104.663%
%RSD		1.454	1.565	5.656
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.411%	98.839%	6.316
%RSD		0.846	1.341	36.220
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		100.050%	98.730%	99.583%
%RSD		0.801	1.640	1.774
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.610%	102.388%	101.373%
%RSD		1.510	1.002	0.396
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.470%	101.944%	-0.679
%RSD		0.496	0.252	28.580
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.948%	98.254%	104.112%
%RSD		1.546	1.298	0.707
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	101.393%	60.050
%RSD		0.000	0.803	106.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		100.229%	92.721%	100.240%
%RSD		1.337	0.424	1.148
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		99.760%	97.950%	0.000
%RSD		1.812	2.213	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.496%	102.284%	101.554%
%RSD		0.387	0.626	0.743
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		100.134%	0.000	
%RSD		1.076	0.000	

CCB 6/29/2012 11:58:07 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		95.914%	0.023	0.768
%RSD		13.368	43.870	29.140
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-10.450	-3.738	-0.602
%RSD		7.379	34.500	63.690
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-1.691	21.070
%RSD		±0.000	54.100	34.000
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±98.465%	100.112%	-0.024
%RSD		±1.069	0.739	579.100
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.003	-0.136	-0.346
%RSD		7285.000	15.750	43.650
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.162	-0.717	-0.004
%RSD		7.559	63.520	131.700
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.017	-0.032	1.173
%RSD		50.560	158.500	7.927
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		98.240%	0.100	-0.016
%RSD		0.798	55.700	484.500
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.137	-0.039	0.188
%RSD		26.210	29.200	52.220
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	-0.548
%RSD		0.000	291.100	79.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.003	97.238%	-0.013
%RSD		403.600	0.828	228.200
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.091	0.012	0.000
%RSD		20.040	117.100	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.659%	0.333	0.400
%RSD		0.400	16.780	6.117
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.010	0.000	
%RSD		43.440	0.000	

240-12657 -b-7-a, 6/29/2012 12:03:47 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		84.077%	0.053	18.910
%RSD		13.588	29.470	7.299
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		12320.000	35810.000	18.980
%RSD		0.926	0.318	0.724
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±2234.000	M 126000.000
%RSD		±0.000	±1.623	M 1.328
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±91.338%	92.870%	0.622
%RSD		±1.283	0.864	13.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.106	-0.033	1.166
%RSD		181.700	131.900	72.170
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		88.920	3904.000	0.078
%RSD		1.003	0.836	23.130
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.591	0.400	7.445
%RSD		6.738	21.050	4.128
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.469%	1.064	0.435
%RSD		0.568	13.760	3.004
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.056	179.100	1.653
%RSD		84.240	0.496	0.832
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.011	-0.883
%RSD		0.000	40.310	177.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.002	90.431%	0.142
%RSD		151.000	0.303	3.774
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.091	81.240	0.000
%RSD		19.340	1.047	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.319%	0.099	0.130
%RSD		0.492	3.373	12.280
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.163	0.000	
%RSD		10.720	0.000	

240-12657 -b-8-a, 6/29/2012 12:09:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		66.726%	0.250	M 238.400
%RSD		12.267	11.820	M 5.339
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 104400.000	81140.000	M 4587.000
%RSD		TM 1.009	0.201	M 0.620
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4318.000	M 182000.000
%RSD		T 0.000	T 1.124	M 0.587
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		81.950%	81.053%	80.420
%RSD		0.809	0.281	5.006
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		9.663	8.006	-1.916
%RSD		3.559	3.629	17.250
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1053.000	TM 52140.000	4.146
%RSD		TM 0.655	TM 0.564	1.551
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		11.790	8.528	69.610
%RSD		1.299	0.313	1.893
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.298%	51.250	0.248
%RSD		0.796	1.637	36.960
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.540	M 435.100	13.620
%RSD		21.050	M 0.710	2.032
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.005	-2.909
%RSD		0.000	96.080	85.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.115	81.455%	0.609
%RSD		34.310	0.828	8.337
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.600	M 324.100	0.000
%RSD		8.380	M 0.217	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		84.896%	0.048	0.085
%RSD		1.174	22.670	34.410
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		4.307	0.000	
%RSD		1.902	0.000	

240-12657 -b-9-a, 6/29/2012 12:15:12 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		63.765%	0.023	38.950
%RSD		13.905	22.220	6.546
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 392000.000</u>	27290.000	42.100
%RSD		<u>TM 1.611</u>	1.059	5.699
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>T 0.000</u>	<u>T 2829.000</u>	<u>M 123800.000</u>
%RSD		<u>T 0.000</u>	<u>T 3.243</u>	<u>M 4.214</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 85.163%</u>	88.226%	0.639
%RSD		<u>T 2.011</u>	0.910	33.820
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.304	-0.058	2.503
%RSD		52.260	156.400	19.420
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>T 375.200</u>	1438.000	0.152
%RSD		<u>T 3.986</u>	0.243	21.120
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.681	0.417	2.973
%RSD		10.910	29.200	7.600
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.702%	2.294	0.264
%RSD		1.137	6.349	15.660
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.084	<u>M 327.600</u>	4.726
%RSD		47.270	<u>M 0.718</u>	3.103
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.005	-1.261
%RSD		0.000	84.930	66.450
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.014	86.102%	0.114
%RSD		57.800	0.312	12.670
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.044	114.100	0.000
%RSD		63.170	0.831	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.188%	-0.122	-0.093
%RSD		1.540	6.704	6.466
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.108	0.000	
%RSD		10.790	0.000	

240-12676 -b-1-a, 6/29/2012 12:20:51 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.537%	0.011	157.600
%RSD		13.758	39.140	6.319
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		34630.000	48020.000	292.300
%RSD		0.801	0.528	1.204
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	1329.000	132200.000
%RSD		0.000	1.391	1.594
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		89.256%	92.222%	4.798
%RSD		0.823	0.439	6.467
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.894	0.414	4.000
%RSD		47.040	8.446	20.610
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		760.100	734.700	1.130
%RSD		1.783	1.196	3.217
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		3.966	1.431	11.360
%RSD		5.499	5.459	1.338
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.285%	2.937	0.364
%RSD		0.645	4.630	10.520
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.165	505.700	20.590
%RSD		28.320	0.611	2.560
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.008	-0.664
%RSD		0.000	41.960	289.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.032	89.601%	0.033
%RSD		24.100	0.467	34.880
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.126	76.050	0.000
%RSD		11.870	1.616	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.581%	-0.093	-0.062
%RSD		0.813	2.010	3.161
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.236	0.000	
%RSD		5.240	0.000	

240-12676 -b-3-a, 6/29/2012 12:26:30 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		81.089%	0.036	114.400
%RSD		13.467	34.660	7.595
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		± 67030.000	17290.000	740.100
%RSD		± 0.165	1.364	0.676
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	± 1825.000	45990.000
%RSD		± 0.000	± 1.909	0.119
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 89.248%	92.940%	6.908
%RSD		± 0.944	0.365	13.900
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.602	0.590	1.750
%RSD		27.110	3.720	33.110
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		25.950	488.800	0.165
%RSD		0.626	1.164	11.780
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.356	1.406	44.640
%RSD		12.440	1.018	1.292
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.244%	2.055	0.306
%RSD		0.600	4.410	14.190
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.028	M 411.600	48.860
%RSD		261.200	M 0.538	2.288
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.013	2.498
%RSD		0.000	27.260	35.570
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.013	91.030%	0.166
%RSD		157.100	1.706	5.931
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.096	118.500	0.000
%RSD		6.431	0.343	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.086%	-0.153	-0.128
%RSD		1.048	4.633	5.385
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.555	0.000	
%RSD		0.512	0.000	

240-12676 -b-4-a, 6/29/2012 12:32:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		64.880%	0.817	129.100
%RSD		13.386	5.637	6.253
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>162070.000</u>	64280.000	<u>M 16600.000</u>
%RSD		<u>10.629</u>	0.880	<u>M 0.679</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>15467.000</u>	<u>M 217500.000</u>
%RSD		<u>10.000</u>	<u>1.637</u>	<u>M 0.889</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		78.437%	77.603%	<u>M 278.200</u>
%RSD		1.207	1.159	<u>M 2.802</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		42.490	26.980	-0.198
%RSD		0.356	1.577	634.800
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>1890.000</u>	<u>140250.000</u>	10.300
%RSD		<u>1.140</u>	<u>1.684</u>	2.853
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		31.990	75.740	109.600
%RSD		1.394	0.881	0.725
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		76.421%	53.180	0.430
%RSD		0.360	0.401	16.540
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		1.656	<u>M 669.000</u>	46.500
%RSD		8.581	<u>M 0.301</u>	0.398
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.130	-7.291
%RSD		0.000	9.183	102.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.549	79.674%	1.038
%RSD		18.170	0.778	9.358
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.245	<u>M 389.900</u>	0.000
%RSD		1.594	<u>M 0.555</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.680%	0.118	0.385
%RSD		0.341	16.270	2.156
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		19.230	0.000	
%RSD		0.757	0.000	

240-12676 -b-5-a, 6/29/2012 12:37:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		61.415%	0.894	137.400
%RSD		12.903	4.590	5.334
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>159910.000</u>	65900.000	<u>M18490.000</u>
%RSD		<u>10.769</u>	0.939	<u>M0.577</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>16103.000</u>	<u>M218800.000</u>
%RSD		<u>10.000</u>	<u>1.975</u>	<u>M0.288</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		77.143%	76.284%	<u>M315.900</u>
%RSD		0.973	0.154	<u>M1.444</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		47.350	29.450	-0.941
%RSD		0.719	1.054	36.170
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>1902.600</u>	<u>141600.000</u>	11.250
%RSD		<u>1.277</u>	<u>10.643</u>	1.826
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		37.350	76.020	119.300
%RSD		3.279	0.312	0.736
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		75.763%	46.390	0.299
%RSD		0.543	2.161	13.230
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		1.618	<u>M647.800</u>	56.050
%RSD		8.459	<u>M0.167</u>	0.984
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.180	-9.267
%RSD		0.000	1.524	45.630
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.640	78.940%	1.373
%RSD		15.260	0.345	3.978
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.437	<u>M411.200</u>	0.000
%RSD		5.066	<u>M0.562</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.764%	0.120	0.434
%RSD		0.539	15.790	3.056
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		19.790	0.000	
%RSD		0.811	0.000	

240-12676 -b-6-a, 6/29/2012 12:43:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		77.868%	-0.010	107.200
%RSD		15.250	103.200	6.935
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		18690.000	40100.000	13.780
%RSD		1.032	1.802	9.775
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	1901.000	85270.000
%RSD		0.000	0.599	1.799
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		91.283%	96.525%	0.593
%RSD		1.150	1.759	27.040
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.208	-0.030	2.471
%RSD		153.200	90.360	30.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		48.890	2407.000	0.088
%RSD		0.835	1.884	7.716
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.197	0.318	3.906
%RSD		15.870	18.280	10.670
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.291%	9.221	0.354
%RSD		0.611	0.802	16.880
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.004	TM 1303.000	20.860
%RSD		1812.000	TM 0.389	0.329
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.014	-1.494
%RSD		0.000	13.140	38.980
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.010	95.050%	0.077
%RSD		54.760	0.810	30.600
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.015	M 312.900	0.000
%RSD		33.090	M 1.073	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		97.723%	-0.211	-0.216
%RSD		1.519	7.019	2.376
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.022	0.000	
%RSD		12.780	0.000	

240-12685 -d-8-a, 6/29/2012 12:49:01 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		74.193%	0.083	103.600
%RSD		13.859	15.950	7.162
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 117200.000</u>	6628.000	<u>M 1345.000</u>
%RSD		<u>TM 0.748</u>	0.795	<u>M 1.102</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>T 0.000</u>	<u>T 1370.000</u>	24240.000
%RSD		<u>T 0.000</u>	<u>T 2.538</u>	2.629
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 86.696%</u>	85.042%	19.070
%RSD		<u>T 4.244</u>	0.346	7.632
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		2.377	2.710	-1.580
%RSD		8.603	3.392	27.190
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>T 240.100</u>	<u>T 8420.000</u>	1.260
%RSD		<u>T 1.659</u>	<u>T 0.137</u>	5.830
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.860	1.384	33.820
%RSD		2.310	5.816	1.399
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.643%	35.900	0.299
%RSD		0.458	1.123	30.880
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.362	143.300	3.221
%RSD		23.480	0.622	4.759
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.012	2.110
%RSD		0.000	5.268	226.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.310	85.037%	0.168
%RSD		16.690	0.282	4.329
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.014	16.560	0.000
%RSD		170.100	2.606	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.676%	-0.232	-0.211
%RSD		0.265	1.368	0.533
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.580	0.000	
%RSD		0.897	0.000	

240-12697 -i-1-a, 6/29/2012 12:54:42 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		72.180%	0.103	70.820
%RSD		11.943	18.780	6.367
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		5342.000	47610.000	M 2939.000
%RSD		1.764	1.278	M 1.164
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1787.000	M 138600.000
%RSD		±0.000	±1.643	M 2.214
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±85.521%	88.784%	109.700
%RSD		±1.292	0.339	2.848
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		9.887	4.517	1.052
%RSD		2.774	3.012	28.700
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		±494.200	3649.000	1.977
%RSD		±0.504	1.038	7.138
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		8.739	11.140	38.890
%RSD		3.083	3.286	4.070
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.705%	1.746	0.383
%RSD		0.963	5.870	27.020
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.226	M 203.400	0.351
%RSD		25.000	M 0.597	15.040
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.011	0.502
%RSD		0.000	46.700	154.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.056	88.527%	0.107
%RSD		31.120	0.160	27.030
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.082	114.200	0.000
%RSD		14.050	0.562	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.970%	-0.226	-0.198
%RSD		1.012	4.658	2.786
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		2.147	0.000	
%RSD		1.115	0.000	

CCV 6/29/2012 13:00:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.924%	103.355%	105.131%
%RSD		12.938	3.513	6.745
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		102.679%	100.770%	102.895%
%RSD		0.325	0.555	1.246
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	97.956%	100.905%
%RSD		0.000	0.761	0.776
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		89.593%	92.434%	102.091%
%RSD		1.454	0.503	5.357
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.911%	100.292%	6.671
%RSD		0.530	0.947	9.001
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		101.083%	101.009%	100.092%
%RSD		0.684	0.255	0.256
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.789%	101.718%	101.654%
%RSD		1.499	1.469	0.993
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.023%	100.137%	-0.741
%RSD		1.283	1.183	22.710
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.920%	99.150%	104.165%
%RSD		1.201	0.110	0.371
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	103.000%	33.640
%RSD		0.000	0.092	124.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		101.197%	91.482%	100.534%
%RSD		0.341	1.083	0.748
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.248%	99.764%	0.000
%RSD		0.625	1.389	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.691%	102.591%	100.327%
%RSD		0.876	1.158	0.897
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		101.509%	0.000	
%RSD		1.030	0.000	

CCB 6/29/2012 13:07:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		90.843%	0.011	1.236
%RSD		14.452	59.880	28.000
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-7.570	-4.190	-0.014
%RSD		2.454	53.720	2332.000
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-1.573	29.180
%RSD		±0.000	62.420	8.381
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±98.005%	99.514%	-0.047
%RSD		±1.356	1.061	315.900
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.148	-0.173	-0.165
%RSD		88.160	25.620	370.900
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.120	0.204	0.001
%RSD		19.020	442.600	519.800
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.060	-0.027	1.342
%RSD		48.330	30.220	13.340
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		98.119%	0.063	-0.060
%RSD		0.651	141.200	122.300
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.027	-0.038	0.032
%RSD		145.800	17.220	115.100
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.000	-0.832
%RSD		0.000	7016.000	87.620
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.014	97.837%	-0.013
%RSD		82.820	0.793	121.400
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.048	0.006	0.000
%RSD		40.340	226.100	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.571%	0.134	0.105
%RSD		0.685	37.030	14.750
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.004	0.000	
%RSD		92.590	0.000	

240-12697 -j-1-a, 6/29/2012 13:12:52 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		78.936%	-0.013	67.890
%RSD		12.346	59.830	5.272
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		5274.000	47560.000	2.704
%RSD		1.343	1.276	29.310
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1033.000	TM 140200.000
%RSD		±0.000	±1.308	TM 2.437
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±89.254%	91.289%	0.378
%RSD		±0.490	0.941	19.510
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.788	0.026	5.763
%RSD		29.100	163.100	10.880
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		±428.600	-74.890	0.702
%RSD		±0.641	1.556	3.457
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.660	3.795	11.010
%RSD		3.671	1.465	2.842
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.083%	1.107	0.385
%RSD		0.405	6.422	18.610
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.308	M 206.900	0.367
%RSD		26.890	M 0.268	5.279
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	0.741
%RSD		0.000	6.732	174.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.053	88.056%	0.031
%RSD		31.370	0.487	68.050
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.016	76.290	0.000
%RSD		126.900	0.687	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		91.357%	-0.102	-0.101
%RSD		0.367	10.870	16.870
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.144	0.000	
%RSD		10.650	0.000	

240-12697 -i-2-a, 6/29/2012 13:18:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		79.541%	-0.016	35.790
%RSD		14.792	23.020	7.971
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8747.000	40000.000	48.730
%RSD		0.749	0.477	3.375
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	1407.000	121100.000
%RSD		10.000	10.768	0.522
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		86.469%	88.799%	2.704
%RSD		1.576	0.436	28.110
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.541	0.179	5.786
%RSD		48.730	36.420	11.840
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		34.090	62.560	0.188
%RSD		1.008	2.655	10.790
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.837	8.690	16.660
%RSD		5.936	3.311	4.021
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.250%	1.031	0.391
%RSD		0.520	19.120	16.900
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.386	164.700	-0.192
%RSD		15.450	0.716	21.380
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.016	-1.284
%RSD		0.000	15.240	92.820
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.017	87.054%	0.060
%RSD		51.690	1.538	29.220
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.011	55.980	0.000
%RSD		195.900	1.410	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.663%	-0.179	-0.157
%RSD		0.768	7.548	5.381
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.994	0.000	
%RSD		2.420	0.000	

240-12697 -j-2-a, 6/29/2012 13:24:11 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.423%	-0.008	35.640
%RSD		13.708	98.560	7.533
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		9026.000	40720.000	1.137
%RSD		0.418	0.605	72.810
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	1399.000	121300.000
%RSD		10.000	1.602	1.640
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		84.984%	86.560%	0.461
%RSD		0.878	0.118	73.670
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.287	0.114	7.212
%RSD		118.700	76.770	5.267
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		32.710	-67.840	0.159
%RSD		1.539	2.478	6.524
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.855	7.981	14.640
%RSD		5.970	2.850	2.882
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.459%	1.097	0.432
%RSD		0.498	5.636	18.750
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.320	168.600	-0.203
%RSD		50.530	0.905	16.040
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.018	-1.054
%RSD		0.000	3.338	47.280
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.019	85.625%	0.021
%RSD		33.430	1.366	83.800
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.008	55.570	0.000
%RSD		88.180	1.312	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.834%	-0.213	-0.197
%RSD		0.677	3.762	1.131
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.923	0.000	
%RSD		3.745	0.000	

240-12697 -i-3-a, 6/29/2012 13:29:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.813%	0.226	76.310
%RSD		13.456	9.606	4.752
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11550.000	M 120900.000	M 5447.000
%RSD		0.714	M 0.523	M 0.271
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	± 3501.000	M 235400.000
%RSD		± 0.000	± 3.998	M 4.192
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 78.343%	79.248%	M 202.600
%RSD		± 1.796	0.502	M 2.241
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		17.890	13.540	3.355
%RSD		1.450	2.356	13.700
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		211.500	± 7972.000	3.161
%RSD		3.573	± 0.629	2.277
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		7.843	21.450	52.000
%RSD		1.522	1.067	1.283
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		74.650%	3.822	0.422
%RSD		0.526	5.474	13.020
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		4.795	M 291.900	1.156
%RSD		10.110	M 0.368	14.940
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.004	-3.296
%RSD		0.000	43.680	29.330
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.101	79.115%	0.343
%RSD		28.330	0.425	13.210
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.185	116.000	0.000
%RSD		13.650	1.213	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.022%	-0.204	-0.161
%RSD		0.954	5.317	4.174
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		3.963	0.000	
%RSD		1.449	0.000	

240-12697 -j-3-a, 6/29/2012 13:35:45 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.222%	-0.013	76.240
%RSD		13.188	66.210	6.730
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11450.000	M 120700.000	3.099
%RSD		0.495	M 0.541	19.200
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 2381.000	TM 235700.000
%RSD		T 0.000	T 4.213	TM 5.939
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 80.922%	82.565%	0.150
%RSD		T 3.329	0.580	119.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		1.096	4.439	9.383
%RSD		9.336	1.419	3.589
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		115.300	-125.200	0.441
%RSD		3.166	3.495	5.304
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.893	3.958	7.452
%RSD		5.941	6.317	6.464
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.751%	2.421	0.477
%RSD		0.466	5.653	15.910
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		5.121	M 280.300	1.029
%RSD		6.191	M 0.887	9.114
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.018	-2.669
%RSD		0.000	3.583	57.290
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.033	81.433%	-0.001
%RSD		86.370	0.936	4260.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.043	51.690	0.000
%RSD		17.660	1.132	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.945%	-0.242	-0.243
%RSD		0.222	1.050	1.758
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.032	0.000	
%RSD		17.620	0.000	

240-12697 -i-4-a, 6/29/2012 13:41:24 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		62.666%	0.095	68.880
%RSD		14.680	5.876	7.909
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		5313.000	47460.000	M 3057.000
%RSD		1.177	0.926	M 0.812
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 1696.000	M 132900.000
%RSD		T 0.000	T 1.250	M 1.191
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		78.304%	82.314%	110.100
%RSD		1.950	0.058	0.984
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		9.626	4.764	1.131
%RSD		1.379	2.203	35.930
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 470.900	3800.000	1.989
%RSD		T 0.582	0.182	3.876
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		8.820	11.260	41.100
%RSD		2.628	2.260	2.026
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		80.224%	1.819	0.422
%RSD		1.676	2.868	2.341
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.295	M 203.300	0.267
%RSD		4.365	M 0.634	20.580
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.009	-5.178
%RSD		0.000	37.690	60.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.083	83.429%	0.100
%RSD		24.770	1.624	33.430
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.065	115.100	0.000
%RSD		32.410	0.914	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.811%	-0.240	-0.210
%RSD		0.719	4.219	1.075
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		2.200	0.000	
%RSD		1.395	0.000	

240-12697 -j-4-a, 6/29/2012 13:47:03 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.086%	-0.012	69.170
%RSD		13.807	40.150	5.386
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		5179.000	46880.000	0.397
%RSD		1.073	1.243	67.010
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	998.800	M 131800.000
%RSD		± 0.000	1.327	M 1.455
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		84.644%	85.459%	0.249
%RSD		1.408	0.239	114.900
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.943	0.019	5.501
%RSD		22.920	355.100	19.510
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		± 406.500	-75.100	0.717
%RSD		± 0.600	3.359	8.533
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.341	3.829	10.200
%RSD		3.500	1.797	1.885
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.104%	1.267	0.452
%RSD		0.212	4.179	22.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.190	M 200.400	0.219
%RSD		64.370	M 0.454	29.930
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.018	-0.322
%RSD		0.000	8.954	378.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.043	85.476%	0.320
%RSD		56.100	0.686	12.720
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.009	74.320	0.000
%RSD		42.230	0.983	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.097%	-0.276	-0.256
%RSD		0.249	2.786	2.454
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.161	0.000	
%RSD		2.973	0.000	

240-12697 -i-5-a, 6/29/2012 13:52:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		54.910%	-0.012	M 721.900
%RSD		12.005	57.540	M 4.815
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		21350.000	M 138000.000	148.700
%RSD		0.564	M 1.217	1.106
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	± 20920.000	TM 343800.000
%RSD		± 0.000	± 3.014	TM 4.014
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 77.057%	82.213%	9.809
%RSD		± 2.524	0.804	10.390
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		2.101	0.613	6.267
%RSD		17.070	13.910	4.675
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1489.000	16.420	1.808
%RSD		TM 4.684	23.120	2.711
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.732	5.008	38.020
%RSD		3.877	5.427	0.744
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.041%	3.271	0.524
%RSD		0.843	5.820	26.990
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		6.677	M 572.000	1.689
%RSD		0.929	M 0.414	0.796
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.008	-2.004
%RSD		0.000	86.000	200.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.322	82.666%	-0.035
%RSD		13.050	0.745	86.430
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.043	52.300	0.000
%RSD		37.710	1.370	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		88.881%	-0.272	-0.257
%RSD		0.486	3.500	3.458
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.931	0.000	
%RSD		2.744	0.000	

240-12697 -j-5-a, 6/29/2012 13:58:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		48.094%	-0.013	M 807.400
%RSD		11.570	27.980	M 6.099
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 21180.000	M 136900.000	3.143
%RSD		T 5.494	M 1.294	6.324
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 22190.000	TM 350300.000
%RSD		T 0.000	T 2.854	TM 1.919
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 75.312%	81.033%	0.390
%RSD		T 3.343	0.976	72.910
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		1.774	0.365	6.326
%RSD		6.762	20.240	6.108
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1352.000	-81.270	1.563
%RSD		TM 1.944	4.679	3.784
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.527	4.046	41.750
%RSD		1.099	4.643	0.554
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		77.057%	3.327	0.523
%RSD		0.209	8.365	10.720
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		7.510	M 586.700	1.977
%RSD		3.439	M 0.884	9.237
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.019	2.237
%RSD		0.000	3.246	146.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.348	82.845%	-0.053
%RSD		13.780	0.889	25.180
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.051	48.140	0.000
%RSD		61.720	0.806	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.240%	-0.272	-0.258
%RSD		0.963	2.094	1.239
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.730	0.000	
%RSD		2.393	0.000	

mb 240-49161/1-a, 6/29/2012 14:04:04 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		64.137%	-0.016	9.757
%RSD		15.602	7.517	14.870
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-19.180	-7.184	-0.112
%RSD		8.664	34.180	311.700
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-8.673	36.180
%RSD		±0.000	13.010	9.628
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±85.670%	93.669%	0.087
%RSD		±1.069	0.628	280.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.215	-0.001	0.620
%RSD		132.100	3739.000	49.290
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.048	-10.520	-0.021
%RSD		45.740	2.229	11.100
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.036	0.145	1.650
%RSD		119.600	26.540	6.076
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		93.350%	-0.010	0.299
%RSD		0.256	297.200	4.740
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.086	-0.048	-0.373
%RSD		188.300	10.640	2.888
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.016	-0.906
%RSD		0.000	5.749	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.016	94.103%	0.041
%RSD		34.470	0.542	30.990
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.033	0.004	0.000
%RSD		45.210	550.500	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.279%	-0.300	-0.273
%RSD		0.425	1.195	0.289
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.045	0.000	
%RSD		10.810	0.000	

CCV 6/29/2012 14:09:42 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		59.220%	106.769%	111.736%
%RSD		14.216	4.668	6.890
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		100.938%	99.655%	101.788%
%RSD		0.436	0.553	0.213
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	92.621%	96.994%
%RSD		0.000	1.575	1.134
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		83.404%	90.303%	101.013%
%RSD		1.257	0.803	2.432
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.126%	99.661%	6.279
%RSD		1.414	1.611	28.190
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		97.322%	100.840%	99.485%
%RSD		1.407	0.353	0.913
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		101.266%	102.043%	101.292%
%RSD		0.831	0.723	0.335
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.389%	100.117%	-0.517
%RSD		1.117	1.533	102.600
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.917%	99.221%	103.851%
%RSD		2.579	0.207	0.987
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	103.591%	69.180
%RSD		0.000	0.483	70.610
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		102.011%	90.129%	100.941%
%RSD		1.014	1.684	0.722
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.061%	99.180%	0.000
%RSD		0.813	1.177	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.021%	101.782%	98.395%
%RSD		1.562	0.631	0.680
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		101.717%	0.000	
%RSD		0.944	0.000	

CCB 6/29/2012 14:16:46 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		69.404%	0.023	2.803
%RSD		13.644	23.680	19.810
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-4.157	-0.000	0.094
%RSD		18.320	10160000.000	929.400
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-1.253	27.910
%RSD		±0.000	87.390	9.572
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±88.859%	94.799%	-0.065
%RSD		±1.039	1.596	133.200
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.064	-0.122	1.659
%RSD		605.400	33.110	27.280
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.085	1.329	0.010
%RSD		39.990	22.200	109.300
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.080	-0.055	1.171
%RSD		46.830	51.170	4.991
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		94.986%	0.014	-0.018
%RSD		0.343	601.100	148.100
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.031	-0.001	-0.015
%RSD		98.050	1833.000	260.200
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.012	-0.613
%RSD		0.000	33.940	82.680
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.021	95.166%	-0.026
%RSD		79.000	1.242	38.930
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.044	0.029	0.000
%RSD		27.490	31.970	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.823%	0.095	0.066
%RSD		0.429	38.790	60.110
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.006	0.000	
%RSD		43.940	0.000	

Ics 240-49161/3-a, 6/29/2012 14:22:33 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		72.502%	M 1007.000	103.600
%RSD		15.102	M 5.789	8.929
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10700.000	10010.000	M 9876.000
%RSD		1.147	1.900	M 0.220
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 9732.000	9966.000
%RSD		T 0.000	T 1.360	1.070
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 85.410%	94.763%	94.380
%RSD		T 1.678	0.638	2.564
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 957.200	M 972.800	85.030
%RSD		M 1.258	M 0.417	11.650
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1017.000	T 9841.000	M 969.400
%RSD		TM 0.949	T 0.596	M 0.731
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 1005.000	M 1012.000	M 1015.000
%RSD		M 0.502	M 1.222	M 1.128
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		92.747%	M 964.000	-4.497
%RSD		0.736	M 0.538	7.293
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 987.500	M 924.500	99.300
%RSD		M 0.694	M 0.855	0.883
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	103.900	580.700
%RSD		0.000	0.713	7.863
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 1004.000	95.011%	98.920
%RSD		M 0.812	1.132	0.343
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		99.840	M 974.900	0.000
%RSD		0.401	M 0.192	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.856%	95.920	TM 231.500
%RSD		1.129	0.518	TM 0.922
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 982.000	0.000	
%RSD		TM 1.021	0.000	

240-12536 -c-10 -b, 6/29/2012 14:29:56 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		58.477%	0.007	60.910
%RSD		14.534	20.770	7.873
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 105100.000</u>	11.100	14.660
%RSD		<u>TM 1.106</u>	42.880	7.510
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>T 0.000</u>	<u>T 25410.000</u>	<u>TM 281800.000</u>
%RSD		<u>T 0.000</u>	<u>T 0.885</u>	<u>TM 0.577</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 77.521%</u>	83.135%	0.062
%RSD		<u>T 0.932</u>	0.268	156.900
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		1.021	6.082	4.743
%RSD		4.149	0.825	12.710
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.036	-138.900	1.432
%RSD		70.640	1.434	6.768
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		29.470	31.060	19.720
%RSD		1.738	2.768	4.308
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.422%	7.702	0.397
%RSD		0.093	3.687	17.830
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		10.940	<u>M 618.800</u>	140.900
%RSD		2.825	<u>M 0.396</u>	1.439
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.014	13.960
%RSD		0.000	24.540	31.980
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.064	81.784%	0.124
%RSD		26.600	0.967	17.360
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.304	104.400	0.000
%RSD		7.982	0.482	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.992%	2.091	0.399
%RSD		0.499	3.529	9.214
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		1.037	0.000	
%RSD		0.305	0.000	

SD 240-12536 -c-10-b@5, 6/29/2012 14:35:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.836%	0.023	13.390
%RSD		14.932	56.890	8.576
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		± 21660.000	-5.447	3.975
%RSD		± 0.678	48.890	15.100
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	± 4981.000	57980.000
%RSD		± 0.000	± 1.740	1.244
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		85.551%	86.814%	-0.029
%RSD		1.597	1.429	169.400
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.332	1.171	3.621
%RSD		75.710	5.197	17.720
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.190	-36.810	0.250
%RSD		15.910	2.077	2.969
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		6.015	6.762	4.875
%RSD		4.507	1.872	7.117
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.407%	1.652	0.085
%RSD		0.262	6.981	88.060
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.134	121.900	27.730
%RSD		12.920	0.299	1.688
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.016	2.139
%RSD		0.000	15.180	7.271
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.011	86.548%	0.003
%RSD		75.380	0.851	781.800
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.231	21.240	0.000
%RSD		2.926	2.258	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.623%	0.309	0.022
%RSD		0.538	2.167	62.680
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.200	0.000	
%RSD		3.575	0.000	

240-12536 -c-10-e ms, 6/29/2012 14:41:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		57.350%	M 986.900	159.900
%RSD		14.211	M 4.476	5.764
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 113700.000	9474.000	M 9512.000
%RSD		TM 0.371	0.959	M 0.711
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 35220.000	TM 293500.000
%RSD		T 0.000	T 0.909	TM 0.385
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 74.928%	82.267%	97.750
%RSD		T 1.578	0.237	3.564
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 954.000	M 957.800	86.020
%RSD		M 0.689	M 0.634	6.114
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 970.100	T 9612.000	M 948.200
%RSD		T 1.224	T 1.045	M 0.899
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 967.900	M 957.400	M 946.700
%RSD		M 0.279	M 0.358	M 0.549
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.137%	M 980.600	-4.548
%RSD		0.497	M 0.359	10.020
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 956.600	TM 1505.000	M 243.000
%RSD		M 0.469	TM 1.407	M 0.558
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	95.750	437.200
%RSD		0.000	0.358	56.030
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 958.700	82.451%	98.710
%RSD		M 0.537	1.044	0.803
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		100.600	M 1069.000	0.000
%RSD		0.376	M 0.368	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.793%	99.410	M 237.000
%RSD		0.699	0.466	M 0.399
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 926.100	0.000	
%RSD		TM 0.249	0.000	

240-12536 -c-10-f msd, 6/29/2012 14:48:38 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		53.068%	M 1008.000	166.300
%RSD		12.866	M 3.977	6.678
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 115400.000	9360.000	M 9535.000
%RSD		TM 0.038	2.277	M 0.410
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 35340.000	TM 297300.000
%RSD		T 0.000	T 1.064	TM 1.019
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 73.901%	80.995%	96.140
%RSD		T 0.664	0.107	0.839
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 955.900	M 961.100	88.670
%RSD		M 0.520	M 0.726	1.535
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 979.000	T 9735.000	M 960.900
%RSD		T 1.582	T 0.686	M 0.272
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 986.700	M 970.200	M 959.300
%RSD		M 0.042	M 0.166	M 0.507
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		76.229%	M 995.600	-4.525
%RSD		0.830	M 0.926	12.100
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 979.100	TM 1528.000	M 248.600
%RSD		M 0.950	TM 0.122	M 0.504
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.530	410.600
%RSD		0.000	0.685	11.850
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 965.600	81.583%	99.520
%RSD		M 0.879	0.884	0.915
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.600	M 1076.000	0.000
%RSD		0.912	M 0.269	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		91.051%	99.910	M 237.600
%RSD		1.012	0.243	M 0.987
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 929.600	0.000	
%RSD		TM 0.612	0.000	

240-12529 -g-5-a, 6/29/2012 14:56:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.005%	0.178	12.860
%RSD		16.086	12.950	11.450
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		4284.000	28560.000	7.794
%RSD		0.364	1.022	20.460
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1158.000	47770.000
%RSD		±0.000	±1.411	1.017
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±89.434%	98.474%	0.026
%RSD		±1.967	0.619	571.900
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.582	0.330	4.684
%RSD		37.900	5.892	13.600
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.165	-24.530	0.147
%RSD		4.624	2.680	51.670
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.473	2.018	16.620
%RSD		15.670	13.190	2.010
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.618%	1.123	0.335
%RSD		1.254	6.493	18.330
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.578	51.150	1.142
%RSD		30.920	0.607	5.919
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	0.260
%RSD		0.000	665.300	661.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.181	97.442%	0.111
%RSD		66.150	0.727	30.640
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.195	166.000	0.000
%RSD		14.660	1.106	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.131%	0.289	0.605
%RSD		0.286	15.230	6.100
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		1.509	0.000	
%RSD		5.928	0.000	

240-12529 -g-6-a, 6/29/2012 15:01:42 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		78.995%	0.135	28.760
%RSD		14.560	10.640	6.548
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		7195.000	37000.000	1.748
%RSD		0.650	0.505	11.060
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±2246.000	69670.000
%RSD		±0.000	±1.974	1.655
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±96.737%	101.967%	0.113
%RSD		±0.915	0.770	63.240
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.256	0.152	5.762
%RSD		116.000	53.910	6.545
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		78.950	38.060	0.464
%RSD		1.239	5.019	2.333
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.508	1.190	88.490
%RSD		2.247	5.136	0.974
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		99.391%	1.441	0.335
%RSD		1.108	2.992	19.500
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.172	104.100	0.244
%RSD		58.200	0.829	23.020
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.012	-1.137
%RSD		0.000	11.400	105.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.069	98.927%	0.065
%RSD		35.930	0.245	39.610
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.092	168.600	0.000
%RSD		9.097	1.477	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.848%	-0.034	0.207
%RSD		0.634	29.730	10.850
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		1.088	0.000	
%RSD		0.742	0.000	

240-12552 -i-1-a, 6/29/2012 15:07:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.017%	0.050	M 255.600
%RSD		12.965	52.360	M 5.064
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 32990.000	52510.000	1.772
%RSD		T 0.145	0.708	41.160
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 9212.000	M 151900.000
%RSD		T 0.000	T 1.144	M 0.738
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 90.602%	94.015%	0.212
%RSD		T 1.063	0.209	35.880
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.115	0.381	6.472
%RSD		212.000	4.068	3.524
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 435.800	-76.290	0.899
%RSD		T 1.223	1.549	4.931
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		6.778	0.986	3.186
%RSD		3.693	7.021	4.947
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.621%	1.678	0.360
%RSD		0.368	7.608	14.840
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.143	171.500	3.427
%RSD		83.580	0.521	4.607
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.011	0.237
%RSD		0.000	22.260	569.500
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.062	91.599%	0.015
%RSD		25.880	0.672	70.140
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.047	M 223.200	0.000
%RSD		48.640	M 0.814	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		97.344%	-0.131	0.203
%RSD		0.713	11.160	2.782
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.009	0.000	
%RSD		41.950	0.000	

240-12552 -i-3-a, 6/29/2012 15:13:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.259%	0.006	86.370
%RSD		14.083	322.900	6.707
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		21010.000	51000.000	46.240
%RSD		1.272	0.628	2.945
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	3533.000	152400.000
%RSD		0.000	1.900	1.130
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		87.192%	92.907%	1.384
%RSD		1.791	0.470	29.780
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.127	1.590	2.917
%RSD		211.200	2.532	23.060
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1253.000	1975.000	5.971
%RSD		0.834	1.018	1.119
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		9.109	0.803	3.274
%RSD		3.118	10.350	1.617
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		88.936%	4.286	0.381
%RSD		1.890	4.259	4.301
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.136	172.400	4.584
%RSD		108.900	0.459	5.827
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	1.826
%RSD		0.000	3.693	36.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.277	90.727%	0.114
%RSD		6.828	0.698	29.500
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.033	415.900	0.000
%RSD		7.750	0.195	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		97.516%	-0.178	0.029
%RSD		0.640	7.201	42.070
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.157	0.000	
%RSD		1.066	0.000	

240-12553 -g-1-a, 6/29/2012 15:18:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		80.114%	0.035	27.500
%RSD		14.017	43.790	6.496
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		9115.000	29750.000	-0.170
%RSD		1.354	0.929	115.000
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±2446.000	53060.000
%RSD		±0.000	±0.493	0.634
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±95.844%	99.932%	-0.094
%RSD		±1.711	1.304	76.670
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.438	0.472	5.906
%RSD		6.493	22.790	5.962
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.038	-34.980	0.020
%RSD		28.740	1.342	81.960
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.997	1.911	7.630
%RSD		7.720	4.181	4.867
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.799%	0.695	0.380
%RSD		0.694	13.410	23.060
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.092	69.070	-0.144
%RSD		113.000	0.478	33.460
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	-0.859
%RSD		0.000	21.010	22.770
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.103	97.381%	-0.011
%RSD		7.113	0.549	72.750
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.012	74.140	0.000
%RSD		136.900	1.088	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.624%	-0.204	-0.125
%RSD		0.680	3.919	11.650
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		2.541	0.000	
%RSD		0.645	0.000	

CCV 6/29/2012 15:24:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.330%	104.928%	109.092%
%RSD		13.058	3.889	6.190
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>100.618%</u>	99.670%	102.373%
%RSD		<u>0.978</u>	1.856	0.454
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>0.000</u>	<u>100.235%</u>	101.483%
%RSD		<u>0.000</u>	<u>1.857</u>	0.689
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>91.300%</u>	96.026%	99.668%
%RSD		<u>1.174</u>	1.515	2.361
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.226%	99.032%	7.900
%RSD		0.386	0.363	13.250
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>100.568%</u>	<u>101.272%</u>	99.923%
%RSD		<u>1.490</u>	<u>0.517</u>	0.378
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		101.739%	102.441%	99.873%
%RSD		1.044	1.169	2.662
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.850%	100.423%	-0.666
%RSD		0.752	0.474	31.970
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.274%	99.816%	106.192%
%RSD		0.334	1.044	1.092
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	104.350%	21.160
%RSD		0.000	0.099	182.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		103.241%	93.010%	102.421%
%RSD		1.497	1.499	0.365
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		102.451%	100.498%	0.000
%RSD		1.081	0.417	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		97.893%	101.718%	97.071%
%RSD		0.462	0.717	0.188
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		103.399%	0.000	
%RSD		0.225	0.000	

CCB 6/29/2012 15:31:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		87.579%	0.031	1.468
%RSD		15.392	21.210	24.010
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-2.834	-1.392	0.412
%RSD		40.820	83.170	147.800
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	1.785	34.400
%RSD		±0.000	52.190	5.001
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±99.502%	102.581%	-0.050
%RSD		±1.890	0.797	78.590
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.124	-0.118	0.603
%RSD		113.100	54.600	43.050
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.065	1.672	0.014
%RSD		6.466	26.240	46.430
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.070	-0.026	1.434
%RSD		30.690	118.200	8.328
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		99.951%	0.177	-0.072
%RSD		0.502	57.450	48.860
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.092	-0.004	-0.029
%RSD		124.400	116.400	68.380
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.007	-0.756
%RSD		0.000	17.680	190.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.025	99.732%	-0.009
%RSD		109.700	0.193	195.400
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.051	0.040	0.000
%RSD		14.540	114.800	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.310%	0.089	0.145
%RSD		0.468	40.380	6.103
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.007	0.000	
%RSD		41.510	0.000	

240-12553 -h-2-a, 6/29/2012 15:37:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		88.581%	-0.008	11.500
%RSD		13.708	84.530	4.578
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		5341.000	28520.000	-0.327
%RSD		0.119	0.832	242.900
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1433.000	50310.000
%RSD		±0.000	±1.521	0.919
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±98.783%	103.017%	-0.051
%RSD		±1.764	0.444	155.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.292	0.397	6.350
%RSD		94.330	15.880	9.795
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.270	-34.180	-0.004
%RSD		1.975	1.391	136.200
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.264	1.863	7.142
%RSD		17.970	9.267	2.595
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		100.112%	0.739	0.344
%RSD		0.203	5.047	11.490
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.219	49.060	-0.115
%RSD		23.100	1.065	20.260
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	-0.906
%RSD		0.000	5.986	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.015	98.122%	0.056
%RSD		30.740	0.850	25.630
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.020	170.600	0.000
%RSD		64.520	0.116	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.146%	-0.110	-0.065
%RSD		0.938	20.670	5.992
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		1.667	0.000	
%RSD		0.946	0.000	

240-12553 -g-3-a, 6/29/2012 15:43:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		88.511%	-0.005	7.151
%RSD		15.824	40.440	13.000
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2509.000	19680.000	0.415
%RSD		0.666	0.317	72.320
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	653.700	33160.000
%RSD		±0.000	1.630	1.109
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±98.117%	101.182%	0.045
%RSD		±1.470	0.862	414.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.280	0.253	4.953
%RSD		67.170	8.133	14.350
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.025	-1.967	0.004
%RSD		43.730	23.020	42.840
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.205	0.856	2.641
%RSD		24.480	4.315	6.435
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		99.500%	0.837	0.323
%RSD		0.345	14.640	14.010
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.083	38.650	0.114
%RSD		11.660	0.381	24.170
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.018	-1.112
%RSD		0.000	2.920	32.130
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.018	96.879%	0.036
%RSD		14.660	0.044	58.550
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.003	M 339.500	0.000
%RSD		409.500	M 0.453	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.097%	0.205	-0.130
%RSD		0.640	8.276	5.509
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.277	0.000	
%RSD		1.076	0.000	

240-12562 -j-1-a, 6/29/2012 15:48:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		53.174%	M 5244.000	M 11770.000
%RSD		11.264	M 0.827	M 3.583
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 511500.000	M 165700.000	73.030
%RSD		TM 0.337	M 0.908	3.326
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 20910.000	M 182000.000
%RSD		T 0.000	T 0.838	M 0.791
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		81.394%	80.431%	0.719
%RSD		0.756	0.354	37.150
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.908	0.499	5.997
%RSD		27.050	9.908	8.593
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		190.600	-68.180	36.950
%RSD		1.524	1.574	0.821
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 372.000	62.570	36.240
%RSD		M 0.359	0.142	1.915
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		74.437%	3.892	0.052
%RSD		1.190	1.959	132.600
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.995	TM 5526.000	M 202.000
%RSD		6.463	TM 0.727	M 1.065
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.008	16.120
%RSD		0.000	34.730	31.370
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.919	79.289%	0.050
%RSD		6.656	0.737	21.820
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.954	33.050	0.000
%RSD		7.031	0.931	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		88.310%	12.050	-0.025
%RSD		0.672	0.539	105.700
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.033	0.000	
%RSD		15.110	0.000	

240-12562 -j-2-a, 6/29/2012 15:54:23 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		51.566%	M 358.100	M 5400.000
%RSD		12.471	M 3.053	M 6.446
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 272500.000	44560.000	58.990
%RSD		TM 0.764	0.587	3.448
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	15242.000	94120.000
%RSD		10.000	10.605	1.169
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		78.868%	82.193%	0.897
%RSD		0.881	0.208	67.220
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.360	8.349	5.413
%RSD		21.390	2.934	9.071
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		4.490	4.105	0.980
%RSD		1.285	40.800	9.601
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		9.020	8.017	4.404
%RSD		0.786	1.584	6.187
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.642%	1.084	0.443
%RSD		0.536	2.811	23.150
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		1.054	TM 5419.000	99.420
%RSD		5.347	TM 0.369	1.192
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	8.964
%RSD		0.000	7.395	47.690
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.127	83.077%	0.071
%RSD		51.680	0.696	23.240
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.206	68.430	0.000
%RSD		13.380	1.629	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		91.682%	0.039	-0.197
%RSD		0.999	21.460	5.961
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.128	0.000	
%RSD		2.946	0.000	

240-12605 -h-2-a, 6/29/2012 16:00:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		63.201%	0.127	91.110
%RSD		14.474	11.660	10.530
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		5410.000	31370.000	4.552
%RSD		1.464	0.278	19.650
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±2569.000	59360.000
%RSD		±0.000	±0.009	0.964
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±86.941%	96.532%	0.080
%RSD		±1.708	1.678	108.700
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.630	0.870	6.117
%RSD		44.930	9.254	10.470
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.507	-32.190	0.043
%RSD		2.572	3.714	6.853
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.998	2.081	5.308
%RSD		5.120	2.305	2.138
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.164%	0.835	0.364
%RSD		0.533	3.226	9.331
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.158	91.450	0.546
%RSD		81.460	0.983	14.380
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.016	-1.319
%RSD		0.000	14.540	54.340
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.008	96.113%	0.122
%RSD		71.510	0.969	21.070
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.015	111.500	0.000
%RSD		112.300	0.906	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.951%	-0.198	-0.219
%RSD		0.804	7.783	3.304
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.193	0.000	
%RSD		0.728	0.000	

240-12605 -h-3-a, 6/29/2012 16:05:42 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.963%	0.202	38.520
%RSD		14.363	15.920	7.122
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2771.000	21190.000	2.111
%RSD		2.010	0.915	13.560
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1017.000	37510.000
%RSD		±0.000	±2.429	0.729
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±91.721%	97.339%	0.126
%RSD		±1.259	1.342	207.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.321	0.492	6.059
%RSD		155.300	8.178	14.930
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.110	-27.060	0.008
%RSD		0.847	0.858	92.130
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.445	1.622	3.869
%RSD		1.841	12.400	5.464
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.977%	0.529	0.359
%RSD		1.266	16.440	21.730
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.162	40.670	0.200
%RSD		40.030	1.282	10.790
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.013	-0.828
%RSD		0.000	7.887	89.570
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.012	96.452%	0.118
%RSD		59.630	0.186	26.720
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.023	45.070	0.000
%RSD		13.400	1.959	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.192%	-0.140	-0.230
%RSD		0.653	4.248	3.412
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.274	0.000	
%RSD		6.556	0.000	

240-12606 -i-1-a, 6/29/2012 16:11:23 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.166%	0.130	80.380
%RSD		13.768	10.070	7.389
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		16630.000	38010.000	0.703
%RSD		0.779	1.242	69.030
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±2003.000	M 126000.000
%RSD		±0.000	±1.080	M 1.273
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±88.086%	93.544%	0.136
%RSD		±0.966	1.101	144.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.060	0.462	2.901
%RSD		478.200	10.460	19.670
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1017.000	434.300	1.809
%RSD		TM 0.729	0.794	4.107
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.431	0.300	2.187
%RSD		1.374	23.280	14.290
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		92.193%	2.020	0.399
%RSD		0.468	5.053	32.520
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.020	166.300	4.209
%RSD		533.500	1.072	3.126
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.017	-0.501
%RSD		0.000	8.513	28.150
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.010	91.923%	0.049
%RSD		46.930	0.656	71.880
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.009	M 286.600	0.000
%RSD		201.800	M 0.473	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.837%	-0.240	-0.177
%RSD		1.114	4.441	2.773
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.012	0.000	
%RSD		24.170	0.000	

240-12606 -i-2-a, 6/29/2012 16:17:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		81.014%	0.071	18.550
%RSD		14.664	27.120	10.130
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		78.980	9.046	8.398
%RSD		0.702	31.690	5.421
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	4.747	155.600
%RSD		±0.000	19.700	7.380
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±94.092%	96.724%	0.079
%RSD		±1.620	0.429	193.400
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.184	1.225	1.896
%RSD		243.400	7.701	45.720
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1.862	8.866	1.210
%RSD		3.013	7.457	0.833
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.323	0.322	15.500
%RSD		16.960	25.620	3.255
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.924%	0.050	0.322
%RSD		0.478	175.800	10.460
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.077	0.412	0.170
%RSD		87.710	2.465	8.794
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.011	-0.828
%RSD		0.000	26.220	90.760
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.038	95.174%	0.214
%RSD		49.410	0.056	9.435
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.027	1.054	0.000
%RSD		31.100	5.625	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.536%	1.216	-0.252
%RSD		0.565	0.125	5.159
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.130	0.000	
%RSD		3.697	0.000	

240-12685 -j-1-a, 6/29/2012 16:22:49 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.234%	0.054	158.200
%RSD		14.068	16.290	8.197
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 188300.000</u>	19050.000	65.130
%RSD		<u>TM 0.527</u>	0.263	1.976
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>18502.000</u>	61020.000
%RSD		<u>10.000</u>	<u>1.260</u>	0.529
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>184.478%</u>	89.150%	1.132
%RSD		<u>1.542</u>	0.208	26.480
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.746	0.297	-0.348
%RSD		40.270	13.520	178.400
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		25.750	2270.000	0.611
%RSD		0.992	0.482	2.762
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		3.487	0.581	2.186
%RSD		4.683	8.638	9.536
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.190%	19.660	0.197
%RSD		0.493	0.605	19.440
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.526	<u>M 332.500</u>	13.800
%RSD		25.090	<u>M 0.680</u>	2.373
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	-2.444
%RSD		0.000	40.200	50.620
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.017	86.853%	0.154
%RSD		50.350	0.437	17.680
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.053	26.430	0.000
%RSD		51.510	0.655	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.083%	-0.267	-0.260
%RSD		0.950	4.195	0.249
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.027	0.000	
%RSD		20.930	0.000	

240-12685 -d-2-a, 6/29/2012 16:28:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.474%	0.038	163.100
%RSD		13.821	22.970	6.333
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 192900.000</u>	19470.000	75.580
%RSD		<u>TM 0.383</u>	0.443	4.388
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>18524.000</u>	61510.000
%RSD		<u>10.000</u>	<u>14.248</u>	4.125
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>187.533%</u>	89.585%	1.414
%RSD		<u>1.797</u>	0.934	33.260
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.581	0.335	0.705
%RSD		12.800	23.100	52.610
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		26.020	2323.000	0.656
%RSD		4.355	1.302	2.795
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		3.627	0.600	2.349
%RSD		3.977	8.367	6.300
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.456%	19.670	0.207
%RSD		0.683	0.458	7.814
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.686	<u>M 341.100</u>	14.220
%RSD		6.033	<u>M 0.747</u>	2.413
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.011	0.725
%RSD		0.000	10.300	78.010
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.000	87.171%	0.093
%RSD		4968.000	0.097	9.375
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.071	27.130	0.000
%RSD		32.410	2.505	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.776%	-0.282	-0.266
%RSD		0.232	4.844	0.971
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.022	0.000	
%RSD		64.810	0.000	

CCV 6/29/2012 16:34:13 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		74.879%	103.392%	115.964%
%RSD		12.862	2.770	5.757
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		101.458%	100.239%	102.216%
%RSD		1.255	1.143	0.812
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		100.000	99.747%	101.046%
%RSD		0.000	1.471	0.229
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		90.702%	95.649%	103.488%
%RSD		1.143	0.742	1.891
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		101.328%	99.879%	5.901
%RSD		0.157	0.755	14.410
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		100.813%	101.155%	100.274%
%RSD		1.362	0.413	1.362
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		101.310%	102.055%	102.031%
%RSD		0.900	2.026	0.874
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		92.320%	101.326%	-0.674
%RSD		0.840	0.868	15.570
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.822%	100.303%	103.918%
%RSD		1.469	0.759	0.719
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	104.330%	50.380
%RSD		0.000	0.480	77.160
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		103.011%	92.851%	102.729%
%RSD		0.879	1.403	0.233
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		102.542%	101.854%	0.000
%RSD		0.857	0.414	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		97.103%	101.852%	96.516%
%RSD		0.459	1.031	0.921
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		103.190%	0.000	
%RSD		0.232	0.000	

CCB 6/29/2012 16:41:04 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		88.488%	0.068	9.014
%RSD		15.146	11.420	13.750
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-0.100	2.106	0.299
%RSD		726.800	59.820	88.150
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	4.609	40.080
%RSD		±0.000	26.130	17.600
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±98.710%	101.160%	0.070
%RSD		±1.771	1.017	421.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.068	-0.141	0.178
%RSD		170.800	44.380	243.500
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.030	2.724	0.016
%RSD		15.490	25.100	31.030
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.032	-0.047	1.139
%RSD		92.830	144.900	12.320
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		99.428%	0.056	-0.032
%RSD		0.868	163.500	65.670
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.012	0.013	0.031
%RSD		1104.000	125.800	187.600
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.012	-1.033
%RSD		0.000	22.640	99.840
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.023	98.837%	-0.003
%RSD		22.780	0.145	1268.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.056	0.034	0.000
%RSD		40.300	39.700	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.158%	0.094	0.078
%RSD		0.460	27.970	25.860
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.011	0.000	
%RSD		115.400	0.000	

240-12685 -d-3-a, 6/29/2012 16:46:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		60.874%	0.016	62.890
%RSD		12.853	25.200	5.813
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 262700.000</u>	16390.000	25.060
%RSD		<u>TM 2.144</u>	1.791	5.849
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>10630.000</u>	<u>TM 310000.000</u>
%RSD		<u>10.000</u>	<u>1.260</u>	<u>TM 0.575</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>177.254%</u>	80.576%	0.510
%RSD		<u>10.994</u>	1.792	10.220
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.407	3.514	-1.200
%RSD		87.160	2.411	108.600
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		208.400	5974.000	0.430
%RSD		1.180	1.512	6.672
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		149.900	0.488	2.465
%RSD		1.862	10.060	6.927
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		76.016%	1.790	0.132
%RSD		0.864	7.175	96.040
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.020	<u>TM 2360.000</u>	0.534
%RSD		847.700	<u>TM 0.735</u>	23.480
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.010	-1.221
%RSD		0.000	13.110	104.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.087	80.175%	0.125
%RSD		44.990	0.784	36.390
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.008	<u>M 248.500</u>	0.000
%RSD		26.850	<u>M 0.245</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.437%	-0.131	-0.130
%RSD		0.875	6.820	14.030
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.003	0.000	
%RSD		172.700	0.000	

240-12685 -d-4-a, 6/29/2012 16:52:23 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		62.848%	0.002	M 329.300
%RSD		14.442	296.300	M 7.741
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		18770.000	32560.000	41.910
%RSD		0.588	0.933	4.123
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 20240.000	TM 255900.000
%RSD		T 0.000	T 1.069	TM 1.240
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 78.043%	81.651%	1.050
%RSD		T 1.488	0.099	8.289
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.393	0.105	-0.912
%RSD		54.540	55.710	20.800
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 945.800	5461.000	1.104
%RSD		T 1.321	0.713	2.007
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.416	0.368	6.604
%RSD		7.013	15.430	1.483
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.095%	8.795	0.397
%RSD		1.024	1.414	13.220
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.174	M 1306.000	7.401
%RSD		89.350	M 0.407	2.877
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.013	0.728
%RSD		0.000	13.130	324.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.144	81.027%	0.128
%RSD		33.730	0.741	33.160
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.113	29.920	0.000
%RSD		5.812	1.988	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		88.840%	-0.204	-0.178
%RSD		0.986	3.327	1.582
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.007	0.000	
%RSD		104.300	0.000	

240-12685 -d-6-a, 6/29/2012 16:58:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		82.727%	-0.001	9.892
%RSD		14.640	1525.000	12.730
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		36.870	-11.180	-0.178
%RSD		4.915	13.130	404.900
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-7.417	49.150
%RSD		±0.000	16.610	16.890
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±93.202%	94.965%	-0.066
%RSD		±1.357	0.557	129.800
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.019	0.028	0.734
%RSD		1726.000	165.400	72.280
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.203	-8.330	-0.013
%RSD		3.288	1.226	37.080
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.252	0.057	0.904
%RSD		7.999	54.050	14.530
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		94.123%	-0.071	0.336
%RSD		0.357	236.600	16.550
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.031	-0.002	-0.204
%RSD		351.800	359.700	1.996
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.017	-1.336
%RSD		0.000	19.750	55.850
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.011	93.270%	0.089
%RSD		24.530	0.684	47.940
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.027	0.034	0.000
%RSD		18.810	14.990	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.456%	-0.250	-0.221
%RSD		0.573	6.234	5.913
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.044	0.000	
%RSD		8.118	0.000	

240-12685 -d-7-a, 6/29/2012 17:03:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		88.508%	-0.001	7.854
%RSD		13.710	1647.000	7.334
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		39.140	-12.270	-0.170
%RSD		5.994	0.081	220.200
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-6.974	13.700
%RSD		±0.000	13.690	19.960
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±91.931%	93.715%	-0.064
%RSD		±1.986	0.587	181.700
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.026	-0.022	1.129
%RSD		521.400	109.900	105.100
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.258	-9.553	-0.008
%RSD		6.561	4.667	71.430
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.329	0.162	0.630
%RSD		9.072	47.410	8.838
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		92.357%	-0.045	0.308
%RSD		0.941	264.700	13.200
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.047	-0.008	-0.193
%RSD		30.990	143.200	4.452
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	-0.302
%RSD		0.000	15.580	172.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.011	91.562%	0.059
%RSD		67.590	1.083	41.690
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.034	0.016	0.000
%RSD		36.240	44.330	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.705%	-0.268	-0.240
%RSD		0.295	1.478	2.515
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.036	0.000	
%RSD		10.080	0.000	

mb 240-49247/1 -a, 6/29/2012 17:09:29 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		93.131%	-0.010	7.856
%RSD		15.904	22.580	12.340
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-33.130	-13.030	0.001
%RSD		1.486	2.484	83850.000
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	-6.406	-2.920
%RSD		± 0.000	11.460	139.900
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 92.910%	94.035%	-0.090
%RSD		± 1.623	0.584	84.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.085	-0.139	0.917
%RSD		439.200	52.160	94.940
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.003	-6.512	-0.021
%RSD		336.000	2.585	16.900
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.032	0.058	1.137
%RSD		183.600	16.140	3.785
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		92.637%	0.056	0.344
%RSD		0.851	259.600	6.766
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.086	-0.087	-0.361
%RSD		81.100	16.430	3.416
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.013	-0.607
%RSD		0.000	20.910	85.170
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.017	92.298%	0.053
%RSD		16.130	0.422	37.730
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.033	0.013	0.000
%RSD		6.252	51.800	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.214%	-0.288	-0.263
%RSD		0.465	1.769	0.864
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.035	0.000	
%RSD		12.630	0.000	

Ics 240-49247/2-a, 6/29/2012 17:15:09 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.287%	97.520	103.600
%RSD		14.017	4.121	6.859
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10810.000	10150.000	M 10080.000
%RSD		0.280	1.431	M 1.225
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	9944.000	9939.000
%RSD		0.000	1.894	0.747
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		92.214%	98.951%	100.500
%RSD		2.373	0.836	3.377
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		97.010	96.490	5.351
%RSD		0.799	1.256	14.690
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		107.500	9899.000	97.880
%RSD		0.550	0.686	0.645
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.700	102.900	105.400
%RSD		1.655	1.238	0.903
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.118%	99.290	-0.171
%RSD		0.647	0.931	112.100
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.390	93.460	99.300
%RSD		0.852	1.245	1.413
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	105.300	-3.258
%RSD		0.000	0.736	860.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		102.900	96.445%	100.600
%RSD		1.182	0.969	0.840
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		102.200	99.190	0.000
%RSD		0.399	1.232	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.183%	94.010	95.600
%RSD		1.981	0.862	1.300
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		106.300	0.000	
%RSD		1.088	0.000	

240-12594 -c-3-a, 6/29/2012 17:21:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		75.755%	0.748	79.400
%RSD		14.475	9.353	5.707
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>±24720.000</u>	71810.000	11.190
%RSD		<u>±0.935</u>	0.459	6.202
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>±0.000</u>	1024.000	<u>TM 230800.000</u>
%RSD		<u>±0.000</u>	3.090	<u>TM 1.412</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>±87.481%</u>	88.987%	0.417
%RSD		<u>±1.557</u>	1.115	59.650
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.302	1.136	-0.599
%RSD		96.900	2.391	68.690
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 6229.000</u>	806.700	4.449
%RSD		<u>TM 0.419</u>	1.405	2.415
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		18.540	0.295	3.594
%RSD		1.086	37.880	8.909
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.162%	1.814	0.116
%RSD		0.274	2.207	10.110
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.043	<u>M 512.300</u>	1.172
%RSD		40.110	<u>M 1.079</u>	7.022
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.007	-2.280
%RSD		0.000	56.560	49.040
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.010	87.465%	0.410
%RSD		200.900	0.938	11.190
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.169	6.321	0.000
%RSD		21.420	2.025	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.600%	0.634	0.072
%RSD		0.948	18.630	54.460
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		2.601	0.000	
%RSD		1.176	0.000	

SD 240-12594 -c-3-a@5, 6/29/2012 17:27:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		90.073%	0.157	20.310
%RSD		14.365	15.360	8.125
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		5449.000	15260.000	1.682
%RSD		0.809	1.150	30.410
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	204.200	49970.000
%RSD		0.000	2.852	0.965
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		96.717%	98.121%	0.003
%RSD		2.133	0.260	1325.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.039	0.054	0.842
%RSD		789.300	75.690	42.830
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1288.000	155.600	0.933
%RSD		0.520	0.020	4.321
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		4.045	0.008	1.361
%RSD		10.040	903.200	8.744
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.140%	0.539	0.048
%RSD		1.592	12.990	84.660
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.080	100.200	-0.036
%RSD		83.720	0.581	76.860
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.012	-1.508
%RSD		0.000	33.170	47.870
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.007	96.178%	0.062
%RSD		170.200	0.643	48.040
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.036	1.153	0.000
%RSD		35.660	3.911	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.760%	-0.028	-0.148
%RSD		0.872	53.680	1.647
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.516	0.000	
%RSD		3.276	0.000	

240-12594 -c-3-b ms, 6/29/2012 17:33:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		75.625%	95.800	172.700
%RSD		15.907	5.451	7.931
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>34920.000</u>	84030.000	<u>9945.000</u>
%RSD		<u>0.627</u>	0.486	<u>0.800</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>0.000</u>	<u>11010.000</u>	<u>243000.000</u>
%RSD		<u>0.000</u>	<u>1.319</u>	<u>0.659</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>82.643%</u>	84.905%	100.800
%RSD		<u>2.522</u>	0.851	5.913
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.430	98.620	3.387
%RSD		0.266	0.650	45.620
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>6451.000</u>	<u>10820.000</u>	101.500
%RSD		<u>0.795</u>	<u>0.691</u>	1.188
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		116.300	96.280	99.860
%RSD		0.997	1.556	1.246
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.640%	100.700	-0.420
%RSD		1.747	0.540	39.030
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		96.430	<u>614.300</u>	102.500
%RSD		2.359	<u>1.102</u>	0.219
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	98.400	-59.220
%RSD		0.000	0.403	14.870
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		99.970	83.839%	101.100
%RSD		1.178	0.466	0.642
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.600	107.700	0.000
%RSD		0.422	0.771	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.043%	97.030	96.590
%RSD		0.828	0.949	0.898
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		107.100	0.000	
%RSD		0.084	0.000	

240-12594 -c-3-c msd, 6/29/2012 17:39:39 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		72.659%	97.090	176.900
%RSD		13.534	3.456	6.468
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>134540.000</u>	82560.000	<u>M 9877.000</u>
%RSD		<u>10.712</u>	1.166	<u>M 0.458</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>10830.000</u>	<u>TM 239200.000</u>
%RSD		<u>10.000</u>	<u>1.599</u>	<u>TM 0.672</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>183.006%</u>	84.749%	99.850
%RSD		<u>12.218</u>	0.361	1.565
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		97.940	97.160	6.934
%RSD		0.639	0.610	27.920
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 6351.000</u>	<u>10680.000</u>	100.100
%RSD		<u>TM 0.447</u>	<u>10.676</u>	0.226
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		114.500	95.220	97.010
%RSD		1.263	0.310	1.118
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.036%	98.440	-0.455
%RSD		0.599	0.704	14.320
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		96.920	<u>M 602.700</u>	102.800
%RSD		0.839	<u>M 0.094</u>	0.412
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	97.340	27.600
%RSD		0.000	1.108	211.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		98.660	84.728%	99.090
%RSD		1.586	1.355	0.642
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.600	106.300	0.000
%RSD		0.605	0.947	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.791%	97.630	95.550
%RSD		0.719	0.321	0.157
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		106.100	0.000	
%RSD		0.411	0.000	

CCV 6/29/2012 17:46:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		85.076%	103.138%	107.470%
%RSD		12.881	3.311	6.247
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>102.997%</u>	103.152%	105.353%
%RSD		<u>0.995</u>	0.696	0.410
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>0.000</u>	<u>101.858%</u>	100.434%
%RSD		<u>0.000</u>	<u>1.102</u>	0.921
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>98.450%</u>	99.268%	102.637%
%RSD		<u>1.096</u>	2.019	1.910
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		101.088%	100.580%	6.668
%RSD		0.605	1.214	27.030
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>99.207%</u>	<u>103.757%</u>	101.364%
%RSD		<u>0.643</u>	<u>1.666</u>	0.722
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.312%	102.984%	101.284%
%RSD		0.227	1.822	0.874
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.628%	102.392%	-0.451
%RSD		0.760	0.764	72.560
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		101.390%	99.791%	107.046%
%RSD		1.465	0.112	0.507
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	105.810%	21.310
%RSD		0.000	0.655	318.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		104.975%	95.530%	103.677%
%RSD		0.637	1.574	0.559
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		105.338%	103.199%	0.000
%RSD		1.337	0.655	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.505%	102.950%	95.289%
%RSD		1.282	0.210	0.794
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		104.897%	0.000	
%RSD		0.476	0.000	

CCB 6/29/2012 17:53:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		100.364%	0.045	4.125
%RSD		13.244	12.610	6.648
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		6.726	9.542	0.595
%RSD		33.380	33.210	72.270
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	9.872	38.810
%RSD		±0.000	14.690	11.390
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±106.861%	104.483%	0.039
%RSD		±1.288	1.269	461.700
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.116	-0.144	-0.168
%RSD		54.540	28.650	126.800
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.013	5.429	0.035
%RSD		200.800	26.440	36.980
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.054	-0.039	1.350
%RSD		36.930	146.100	14.220
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.811%	0.160	-0.006
%RSD		0.541	52.730	1245.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.075	0.030	0.240
%RSD		47.150	32.750	34.520
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.020	-0.730
%RSD		0.000	18.930	391.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.030	101.077%	0.008
%RSD		71.080	0.410	192.200
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.150	0.059	0.000
%RSD		14.020	34.090	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.729%	0.388	0.207
%RSD		0.398	16.090	12.670
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.017	0.000	
%RSD		52.500	0.000	

240-12565 -c-1-a, 6/29/2012 17:59:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		69.648%	0.003	20.750
%RSD		11.580	653.100	3.870
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		60420.000	5770.000	79.650
%RSD		0.514	1.409	5.851
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	478700.000	29920.000
%RSD		0.000	4.034	3.809
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		85.667%	81.687%	0.327
%RSD		2.245	0.411	85.670
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		1.450	3.228	0.949
%RSD		13.420	4.048	44.370
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		19.540	24.150	0.196
%RSD		3.262	1.197	12.430
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.996	1.111	1.606
%RSD		17.620	8.125	10.880
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		79.703%	1.291	0.065
%RSD		0.682	6.259	113.300
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		14.670	420.700	18.510
%RSD		4.699	0.683	2.286
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.013	-0.206
%RSD		0.000	12.760	815.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.012	82.193%	0.386
%RSD		98.220	0.578	3.745
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.138	21.990	0.000
%RSD		16.430	0.950	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		91.502%	0.251	0.452
%RSD		0.640	18.490	0.996
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.029	0.000	
%RSD		2.171	0.000	

240-12567 -a-1-a, 6/29/2012 18:05:15 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		78.637%	-0.004	19.110
%RSD		14.159	209.000	8.135
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		4915.000	9056.000	2.588
%RSD		0.478	0.881	29.450
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1241.000	92640.000
%RSD		±0.000	±1.788	2.257
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±88.322%	91.587%	0.219
%RSD		±1.677	1.616	91.180
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.040	-0.033	1.434
%RSD		335.800	109.700	11.400
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		4.130	-44.550	0.053
%RSD		1.496	4.240	41.750
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.330	0.634	2.526
%RSD		3.138	10.690	2.722
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.492%	0.738	0.433
%RSD		0.944	20.260	13.890
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.133	M 220.300	0.008
%RSD		65.640	M 0.812	298.500
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.013	-1.567
%RSD		0.000	8.201	73.140
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.010	91.132%	0.214
%RSD		52.310	0.762	2.924
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.074	103.400	0.000
%RSD		33.640	0.752	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.326%	-0.067	-0.119
%RSD		1.416	39.220	12.290
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.004	0.000	
%RSD		77.030	0.000	

240-12567 -a-2-a, 6/29/2012 18:10:55 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		84.697%	0.000	7.846
%RSD		15.079	2016.000	10.840
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3266.000	3234.000	174.000
%RSD		0.809	1.299	3.041
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	2980.000	100600.000
%RSD		0.000	2.214	1.090
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		92.664%	94.763%	1.724
%RSD		2.574	0.582	6.057
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.092	2.593	0.510
%RSD		254.500	9.094	111.300
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		4.294	145.200	0.160
%RSD		0.728	2.135	8.650
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.137	0.645	8.399
%RSD		8.547	9.824	2.077
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		93.680%	0.737	0.398
%RSD		0.845	6.394	5.264
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.674	327.200	0.188
%RSD		10.890	1.051	47.870
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.012	-1.391
%RSD		0.000	28.640	85.410
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.009	93.653%	0.083
%RSD		92.080	0.333	34.640
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.039	63.990	0.000
%RSD		17.840	1.266	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.108%	-0.058	-0.176
%RSD		1.034	14.550	0.636
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.215	0.000	
%RSD		6.640	0.000	

240-12567 -a-3-a, 6/29/2012 18:16:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.557%	-0.009	43.270
%RSD		15.197	15.810	8.096
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10200.000	11630.000	21.120
%RSD		0.691	1.997	8.072
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	12505.000	45500.000
%RSD		10.000	12.162	1.186
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		194.186%	96.309%	0.299
%RSD		1.500	0.552	60.980
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.100	0.089	0.738
%RSD		71.620	22.450	40.650
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		24.070	-0.108	-0.001
%RSD		0.615	511.600	399.500
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.232	0.120	1.066
%RSD		25.650	32.040	14.570
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.647%	0.392	0.397
%RSD		0.725	35.180	8.752
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.096	TM 1272.000	-0.131
%RSD		22.670	TM 0.866	35.680
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.012	-1.039
%RSD		0.000	11.770	43.260
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.008	95.310%	0.040
%RSD		31.820	0.725	77.170
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.010	M 212.800	0.000
%RSD		219.700	M 0.971	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.936%	-0.180	-0.205
%RSD		0.714	3.318	1.320
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.005	0.000	
%RSD		67.320	0.000	

240-12567 -a-4-a, 6/29/2012 18:22:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		87.240%	-0.005	M 191.000
%RSD		13.950	41.360	M 6.831
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		27520.000	35130.000	2.642
%RSD		0.986	0.722	26.070
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	7584.000	89530.000
%RSD		0.000	2.727	1.411
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		96.469%	100.021%	0.000
%RSD		1.505	0.528	24330.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.114	0.507	3.127
%RSD		89.690	7.381	15.630
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		62.400	95.460	0.067
%RSD		1.203	1.582	26.920
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.735	0.104	2.504
%RSD		1.553	43.820	11.110
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.933%	0.873	0.282
%RSD		1.142	7.046	25.070
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.093	TM 13710.000	-0.187
%RSD		39.150	TM 0.528	11.840
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.010	-1.581
%RSD		0.000	42.810	135.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.004	96.582%	0.080
%RSD		391.500	1.510	17.360
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.001	189.300	0.000
%RSD		500.800	0.763	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.264%	-0.171	-0.233
%RSD		0.585	15.320	3.419
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.032	0.000	
%RSD		9.298	0.000	

240-12567 -a-5-a, 6/29/2012 18:28:07 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		66.324%	-0.014	18.440
%RSD		13.156	56.970	9.482
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>128240.000</u>	29960.000	5.243
%RSD		<u>10.842</u>	1.352	2.913
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>12358.000</u>	<u>TM 458900.000</u>
%RSD		<u>10.000</u>	<u>12.021</u>	<u>TM 0.933</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>178.245%</u>	77.202%	0.111
%RSD		<u>10.887</u>	0.815	219.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.135	0.324	3.762
%RSD		86.380	13.860	8.189
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		9.146	-217.500	0.292
%RSD		0.772	1.597	11.400
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.952	0.340	6.743
%RSD		15.500	26.750	0.675
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		72.631%	3.656	0.341
%RSD		0.058	6.326	32.990
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		1.675	<u>M 1101.000</u>	-0.225
%RSD		16.640	<u>M 0.942</u>	4.396
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.012	-1.899
%RSD		0.000	67.440	198.500
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.125	76.913%	0.038
%RSD		33.760	0.689	48.550
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.017	60.080	0.000
%RSD		43.210	1.058	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.799%	-0.197	-0.233
%RSD		0.602	12.500	3.357
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.014	0.000	
%RSD		60.270	0.000	

240-12594 -a-1-a, 6/29/2012 18:33:52 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		84.199%	0.009	5.559
%RSD		15.411	99.790	16.040
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1843.000	1685.000	337.600
%RSD		2.235	0.520	1.808
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1254.000	1055.000
%RSD		±0.000	±3.466	2.531
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±84.620%	86.235%	2.127
%RSD		±3.679	0.819	8.240
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.184	8.802	0.253
%RSD		176.900	0.510	273.700
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		8.828	307.100	1.905
%RSD		2.683	0.989	3.384
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		9.473	2.627	5.248
%RSD		2.802	1.587	3.999
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.946%	0.111	0.277
%RSD		1.365	85.690	10.960
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.077	10.520	0.780
%RSD		122.900	1.173	9.026
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.069	-0.270
%RSD		0.000	3.313	204.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.001	86.226%	0.270
%RSD		1016.000	0.383	14.540
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.012	18.280	0.000
%RSD		73.950	2.858	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.078%	-0.146	-0.250
%RSD		0.872	0.069	3.016
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.307	0.000	
%RSD		2.453	0.000	

240-12594 -a-2-a, 6/29/2012 18:39:33 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		87.137%	0.396	4.110
%RSD		13.915	5.109	17.670
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		7919.000	5861.000	16.570
%RSD		0.460	0.927	4.101
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	2586.000	11520.000
%RSD		0.000	5.993	4.766
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		85.998%	87.047%	0.187
%RSD		2.480	0.229	109.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.100	0.350	-1.676
%RSD		250.500	16.640	45.370
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1383.000	322.500	16.350
%RSD		3.970	1.032	1.478
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		4.160	0.268	23.730
%RSD		2.594	25.100	0.668
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.722%	0.142	0.243
%RSD		0.823	46.420	25.350
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.089	77.610	-0.239
%RSD		80.730	0.718	8.876
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.007	1.620
%RSD		0.000	50.280	64.750
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.378	86.720%	0.135
%RSD		10.140	0.774	11.020
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.022	45.890	0.000
%RSD		61.570	0.243	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.282%	-0.057	-0.183
%RSD		0.505	23.850	4.604
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.005	0.000	
%RSD		23.990	0.000	

240-12594 -a-4-a, 6/29/2012 18:45:12 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.572%	0.095	M 1093.000
%RSD		14.140	24.950	M 6.587
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 83100.000	70280.000	2.704
%RSD		T 0.178	0.587	49.600
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 7006.000	M 155600.000
%RSD		T 0.000	T 1.424	M 0.859
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		81.977%	78.600%	0.436
%RSD		1.855	0.380	106.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.064	0.215	-2.602
%RSD		281.900	14.260	10.700
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 21280.000	10.950	45.090
%RSD		TM 0.859	10.250	0.648
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		18.810	2.133	19.620
%RSD		0.661	8.340	0.230
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		76.136%	1.225	0.043
%RSD		0.913	5.819	143.700
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.112	M 752.900	0.512
%RSD		62.430	M 0.136	15.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.013	-1.495
%RSD		0.000	43.560	302.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.638	78.346%	0.278
%RSD		15.410	0.757	10.960
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.006	25.450	0.000
%RSD		237.200	3.110	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.896%	1.320	-0.255
%RSD		0.945	4.651	2.858
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.315	0.000	
%RSD		5.409	0.000	

240-12594 -a-5-a, 6/29/2012 18:50:58 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		92.039%	0.019	12.850
%RSD		14.852	54.420	9.802
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3241.000	3920.000	503.600
%RSD		1.001	1.480	1.283
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	1041.000	1313.000
%RSD		±0.000	0.870	1.281
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±89.286%	90.366%	6.410
%RSD		±2.716	1.098	28.520
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.741	0.284	-1.592
%RSD		28.860	21.970	48.940
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		29.780	552.300	3.396
%RSD		0.271	1.258	3.497
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.280	2.581	7.777
%RSD		0.714	3.425	4.763
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.337%	0.313	0.300
%RSD		0.291	12.080	22.210
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.067	16.010	-0.215
%RSD		76.580	1.259	10.720
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.172	-1.269
%RSD		0.000	3.415	67.280
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.027	89.744%	0.339
%RSD		37.700	0.487	3.717
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.064	6.166	0.000
%RSD		26.120	3.936	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.392%	-0.258	-0.259
%RSD		1.115	1.932	2.003
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		4.228	0.000	
%RSD		1.706	0.000	

CCV 6/29/2012 18:56:37 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		84.891%	99.620%	103.229%
%RSD		13.740	4.041	5.064
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>101.185%</u>	104.918%	103.518%
%RSD		<u>0.340</u>	0.910	0.919
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>0.000</u>	<u>103.885%</u>	100.369%
%RSD		<u>0.000</u>	<u>1.326</u>	1.662
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>90.086%</u>	94.232%	102.622%
%RSD		<u>2.717</u>	0.458	4.433
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		100.732%	99.856%	5.655
%RSD		1.410	1.122	26.910
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>99.534%</u>	<u>104.361%</u>	99.982%
%RSD		<u>0.787</u>	<u>0.568</u>	0.776
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		101.198%	102.772%	102.270%
%RSD		0.540	0.507	1.057
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.047%	101.794%	-0.614
%RSD		1.606	0.849	45.700
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.677%	100.132%	105.380%
%RSD		1.291	0.612	0.905
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	105.510%	90.450
%RSD		0.000	0.331	31.450
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		105.805%	90.927%	105.637%
%RSD		1.619	0.679	1.521
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		106.522%	103.028%	0.000
%RSD		1.124	1.130	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.916%	102.152%	95.110%
%RSD		1.894	0.282	0.947
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		106.423%	0.000	
%RSD		1.191	0.000	

CCB 6/29/2012 19:03:17 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		99.711%	0.034	3.483
%RSD		13.876	43.790	3.632
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8.262	9.018	0.239
%RSD		14.880	68.800	111.400
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	14.020	46.640
%RSD		±0.000	12.370	13.110
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±100.249%	97.504%	0.028
%RSD		±1.862	0.575	297.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.192	-0.161	-1.647
%RSD		72.890	33.270	19.840
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.088	5.309	0.034
%RSD		13.620	12.630	26.160
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.066	-0.018	1.444
%RSD		14.410	122.100	8.364
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.611%	0.162	0.019
%RSD		0.191	39.290	180.500
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.013	0.022	0.069
%RSD		540.200	50.840	60.890
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.016	0.529
%RSD		0.000	11.260	249.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.046	95.141%	-0.005
%RSD		36.210	0.949	297.800
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.075	0.064	0.000
%RSD		29.540	52.400	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.480%	0.157	0.082
%RSD		0.713	23.460	26.350
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.021	0.000	
%RSD		3.633	0.000	

240-12594 -a-6-a, 6/29/2012 19:08:56 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		94.748%	0.005	5.881
%RSD		14.212	163.100	9.791
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		6557.000	10180.000	-0.264
%RSD		0.829	0.642	189.700
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1192.000	29010.000
%RSD		±0.000	±1.677	2.420
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±89.966%	90.792%	-0.036
%RSD		±3.212	0.722	249.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.046	-0.082	-1.544
%RSD		601.500	35.130	43.970
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		±162.600	717.000	0.006
%RSD		±4.251	0.428	297.300
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.107	0.102	0.750
%RSD		56.670	13.640	22.480
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.551%	0.179	0.301
%RSD		0.271	47.210	11.150
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.021	M 350.500	0.004
%RSD		244.600	M 0.552	387.400
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.014	-1.574
%RSD		0.000	10.710	73.590
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.013	89.230%	0.137
%RSD		22.510	0.871	13.330
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.002	14.860	0.000
%RSD		592.000	0.885	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.227%	-0.116	-0.141
%RSD		0.377	12.130	13.870
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.041	0.000	
%RSD		7.520	0.000	

240-12594 -a-7-a, 6/29/2012 19:14:39 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.495%	0.061	M 629.800
%RSD		13.207	30.010	M 5.745
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 304000.000	M 102600.000	352.300
%RSD		TM 0.494	M 0.473	1.437
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 10980.000	M 215700.000
%RSD		T 0.000	T 1.658	M 0.619
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		83.109%	79.046%	17.660
%RSD		1.546	0.809	6.051
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		1.320	0.604	-3.863
%RSD		11.260	3.330	9.506
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 19490.000	6072.000	41.050
%RSD		TM 0.579	1.734	1.664
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		48.350	1.428	15.820
%RSD		2.576	8.653	1.183
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		74.253%	2.377	-0.732
%RSD		0.716	3.936	7.145
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.139	M 1360.000	1.743
%RSD		74.350	M 0.394	13.990
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.007	-6.005
%RSD		0.000	19.790	15.500
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.242	77.287%	1.037
%RSD		12.360	0.451	5.102
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.120	M 980.800	0.000
%RSD		8.084	M 0.769	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		87.034%	-0.140	-0.121
%RSD		1.370	11.310	6.634
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		1.088	0.000	
%RSD		1.560	0.000	

240-12665 -a-1-a, 6/29/2012 19:20:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		98.990%	0.107	10.280
%RSD		13.698	27.280	9.750
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		842.900	2029.000	159.400
%RSD		2.005	0.890	2.520
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	1152.000	1439.000
%RSD		10.000	1.447	2.221
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		97.741%	101.608%	1.016
%RSD		12.269	1.672	7.068
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.213	-0.037	-5.043
%RSD		16.720	89.910	3.810
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		754.300	25780.000	2.565
%RSD		10.702	1.139	0.426
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.625	0.540	3.823
%RSD		8.665	4.669	1.252
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		101.772%	0.289	0.188
%RSD		0.458	34.940	14.380
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.214	8.899	-0.341
%RSD		36.020	1.674	7.061
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.013	-3.270
%RSD		0.000	13.400	62.650
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.008	98.623%	0.167
%RSD		139.300	1.917	27.940
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.023	25.660	0.000
%RSD		48.550	1.376	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		103.009%	-0.243	-0.218
%RSD		0.817	3.121	2.918
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.131	0.000	
%RSD		5.014	0.000	

240-12665 -a-2-a, 6/29/2012 19:26:17 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		99.930%	0.046	4.762
%RSD		14.647	7.807	12.470
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2381.000	258.000	202.700
%RSD		1.883	3.335	2.707
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	269.300	118.800
%RSD		10.000	2.140	7.972
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		100.394%	99.857%	3.395
%RSD		1.699	0.761	1.838
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.398	0.357	-1.190
%RSD		69.930	10.470	36.630
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		41.070	284.600	0.873
%RSD		1.022	1.465	3.463
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.917	2.325	3.880
%RSD		5.842	3.372	1.939
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		99.431%	0.088	0.281
%RSD		0.272	91.090	9.968
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.011	0.821	-0.325
%RSD		1442.000	2.778	3.235
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.007	-1.221
%RSD		0.000	76.570	111.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.046	96.449%	0.181
%RSD		36.170	0.288	10.300
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.013	7.398	0.000
%RSD		35.400	2.442	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.794%	-0.138	-0.248
%RSD		1.168	1.173	1.531
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.235	0.000	
%RSD		1.820	0.000	

240-12665 -a-3-a, 6/29/2012 19:32:00 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		100.290%	0.134	3.768
%RSD		13.718	12.070	14.030
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1071.000	3233.000	201.700
%RSD		0.829	0.725	2.886
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	921.000	1219.000
%RSD		±0.000	1.865	3.382
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±96.790%	97.334%	4.383
%RSD		±2.154	0.520	14.220
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.116	-0.110	-2.154
%RSD		341.400	14.160	35.830
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		±505.100	1992.000	5.892
%RSD		±0.364	0.267	1.261
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.339	1.019	2.172
%RSD		0.512	11.580	10.430
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.895%	0.077	0.167
%RSD		0.748	90.050	18.960
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.089	15.110	-0.364
%RSD		33.640	0.555	7.919
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	-1.462
%RSD		0.000	10.860	51.860
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.077	94.292%	-0.006
%RSD		24.970	0.661	271.700
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.036	29.980	0.000
%RSD		20.410	2.201	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.212%	-0.267	-0.200
%RSD		0.687	3.642	5.367
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.068	0.000	
%RSD		4.486	0.000	

240-12665 -a-4-a, 6/29/2012 19:37:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		102.803%	0.096	3.571
%RSD		15.229	6.858	16.730
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1458.000	319.300	622.500
%RSD		0.268	2.142	0.785
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	531.900	3.001
%RSD		± 0.000	2.170	16.420
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 96.031%	96.430%	25.240
%RSD		± 2.376	0.740	0.604
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		1.880	0.746	-1.576
%RSD		8.468	9.283	41.810
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		20.520	990.300	1.637
%RSD		0.543	1.168	2.217
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.032	0.664	3.808
%RSD		6.460	26.120	4.080
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.571%	0.292	0.263
%RSD		0.324	35.910	21.570
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.064	0.289	-0.376
%RSD		32.060	8.736	2.753
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.015	-2.184
%RSD		0.000	3.603	77.590
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.013	94.025%	0.171
%RSD		56.860	0.460	2.676
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.035	18.550	0.000
%RSD		38.900	2.779	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.677%	-0.260	-0.268
%RSD		1.013	7.083	2.953
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.340	0.000	
%RSD		3.117	0.000	

240-12665 -a-5-a, 6/29/2012 19:43:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		103.732%	0.062	2.849
%RSD		13.985	16.330	11.900
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1406.000	978.600	294.500
%RSD		2.778	2.716	0.485
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	913.900	1963.000
%RSD		±0.000	1.618	1.988
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±95.599%	96.521%	7.269
%RSD		±2.191	1.792	5.779
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.282	0.230	-1.106
%RSD		50.860	8.734	18.540
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		5.806	805.900	0.229
%RSD		0.233	0.975	9.187
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.717	0.590	3.831
%RSD		18.320	5.420	6.826
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.799%	0.077	0.352
%RSD		0.729	114.400	22.560
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.044	12.060	-0.379
%RSD		119.100	2.235	5.257
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.017	-1.176
%RSD		0.000	3.240	124.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.000	93.710%	0.047
%RSD		12140.000	0.776	29.500
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.032	12.930	0.000
%RSD		12.240	1.281	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.135%	-0.268	-0.265
%RSD		0.604	5.262	3.024
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.150	0.000	
%RSD		8.003	0.000	

CCV 6/29/2012 19:49:04 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		96.994%	97.079%	98.867%
%RSD		13.042	3.786	4.817
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		$\pm 101.189\%$	105.604%	104.460%
%RSD		± 1.085	0.524	1.141
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	$\pm 104.992\%$	99.661%
%RSD		± 0.000	± 1.663	1.159
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		$\pm 98.515\%$	101.299%	105.224%
%RSD		± 2.287	1.055	0.479
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		101.642%	100.681%	5.453
%RSD		1.147	0.959	34.650
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		$\pm 97.946\%$	$\pm 105.286\%$	100.392%
%RSD		± 0.638	± 0.511	0.594
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.187%	102.348%	100.515%
%RSD		1.706	0.778	1.707
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		98.748%	101.584%	-0.789
%RSD		1.628	1.013	20.200
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		101.691%	100.477%	105.141%
%RSD		1.778	0.339	1.138
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	105.267%	55.050
%RSD		0.000	0.675	126.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		105.590%	97.488%	105.132%
%RSD		0.783	1.167	0.591
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		106.625%	103.885%	0.000
%RSD		0.810	1.784	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.780%	101.748%	93.317%
%RSD		1.303	0.622	1.190
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		105.595%	0.000	
%RSD		1.071	0.000	

CCB 6/29/2012 19:55:55 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		113.205%	0.036	1.985
%RSD		14.107	42.240	15.430
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10.340	15.770	0.442
%RSD		19.870	25.170	11.260
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	17.070	47.810
%RSD		±0.000	16.220	2.888
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±111.110%	107.524%	-0.032
%RSD		±1.294	0.903	541.500
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.025	-0.186	0.006
%RSD		722.300	35.590	11200.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.160	7.093	0.035
%RSD		4.453	6.606	9.368
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.053	-0.024	1.229
%RSD		21.520	232.400	21.110
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		106.069%	0.145	-0.047
%RSD		0.167	41.450	18.240
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.016	0.043	-0.031
%RSD		463.400	38.200	143.100
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.019	-0.499
%RSD		0.000	25.540	66.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.053	103.459%	-0.000
%RSD		19.820	0.801	1078.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.088	0.089	0.000
%RSD		17.740	26.780	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		106.553%	0.078	0.056
%RSD		1.027	37.150	14.250
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.025	0.000	
%RSD		13.480	0.000	

ICSA 6/29/2012 20:01:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		82.687%	0.013	1.281
%RSD		11.957	31.920	27.050
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>152060.000</u>	54200.000	<u>M51840.000</u>
%RSD		<u>10.841</u>	1.285	<u>M0.553</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>152520.000</u>	50480.000
%RSD		<u>10.000</u>	<u>15.069</u>	4.392
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>185.930%</u>	84.847%	<u>M1080.000</u>
%RSD		<u>13.165</u>	<u>0.283</u>	<u>M0.924</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.182	0.236	-1.861
%RSD		47.540	20.820	28.630
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.200	<u>TM 52730.000</u>	0.094
%RSD		20.730	<u>TM 0.766</u>	25.200
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.491	0.954	3.983
%RSD		17.480	1.062	4.766
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.972%	0.505	-0.209
%RSD		<u>0.783</u>	13.700	26.570
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.021	0.178	<u>M1063.000</u>
%RSD		487.400	10.640	<u>M1.016</u>
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.036	86.510
%RSD		0.000	2.728	20.880
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.389	86.202%	0.373
%RSD		11.320	<u>0.559</u>	12.500
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.144	0.098	0.000
%RSD		10.950	33.340	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.640%	-0.069	-0.125
%RSD		<u>0.799</u>	57.140	18.690
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.132	0.000	
%RSD		1.125	0.000	

ICSAB 6/29/2012 20:07:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.737%	100.065%	101.182%
%RSD		13.295	4.372	6.151
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>101.173%</u>	106.443%	<u>101.407%</u>
%RSD		<u>0.555</u>	0.147	<u>0.294</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>0.000</u>	<u>100.085%</u>	97.274%
%RSD		<u>0.000</u>	<u>2.174</u>	3.193
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>86.122%</u>	86.036%	<u>105.869%</u>
%RSD		<u>4.637</u>	0.451	<u>1.335</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		99.591%	98.300%	5.890
%RSD		0.400	0.672	16.400
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		105.498%	<u>104.972%</u>	96.605%
%RSD		2.875	<u>0.412</u>	0.478
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		99.584%	97.685%	103.176%
%RSD		1.181	0.753	1.064
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.374%	99.567%	-0.782
%RSD		0.748	1.371	18.550
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.885%	96.975%	<u>106.171%</u>
%RSD		0.664	1.047	<u>0.595</u>
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	103.745%	42.810
%RSD		0.000	0.312	121.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		103.482%	88.483%	106.740%
%RSD		0.436	0.805	0.692
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		108.493%	104.817%	0.000
%RSD		0.195	1.036	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.287%	101.528%	97.515%
%RSD		1.397	0.739	0.412
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		111.656%	0.000	
%RSD		0.777	0.000	

CCV 6/29/2012 20:14:24 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		80.476%	101.450%	102.154%
%RSD		13.941	4.128	5.824
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		99.911%	105.212%	102.241%
%RSD		1.314	0.164	1.891
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	104.080%	100.405%
%RSD		0.000	1.612	0.798
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		92.544%	97.959%	105.484%
%RSD		1.340	1.779	2.098
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		101.125%	98.892%	5.596
%RSD		1.057	1.336	23.800
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		99.708%	104.364%	99.227%
%RSD		1.121	0.851	0.609
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		101.105%	101.495%	101.635%
%RSD		0.339	0.499	0.965
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.101%	101.211%	-0.390
%RSD		1.924	0.269	61.080
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		101.440%	100.742%	113.466%
%RSD		0.388	0.814	0.348
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	106.043%	89.710
%RSD		0.000	0.376	58.650
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		105.617%	95.381%	106.071%
%RSD		1.495	1.410	0.292
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		107.073%	104.641%	0.000
%RSD		0.282	1.396	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.468%	102.354%	94.307%
%RSD		1.390	0.612	0.791
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		106.890%	0.000	
%RSD		0.614	0.000	

CCB 6/29/2012 20:21:48 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		99.570%	0.022	1.793
%RSD		13.511	37.070	11.990
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		12.510	19.120	0.736
%RSD		33.800	24.550	19.270
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	19.880	49.310
%RSD		±0.000	5.315	6.595
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±107.789%	104.646%	-0.008
%RSD		±1.355	2.053	1263.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.145	-0.125	-0.318
%RSD		89.380	12.430	193.600
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.227	8.503	0.036
%RSD		9.691	6.703	24.690
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.058	-0.043	1.173
%RSD		42.840	64.360	8.077
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		104.965%	0.183	-0.020
%RSD		0.364	33.740	595.800
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.089	0.052	1.491
%RSD		24.900	20.120	5.662
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.024	0.377
%RSD		0.000	34.390	251.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.051	103.056%	0.018
%RSD		27.560	0.612	40.100
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.113	0.078	0.000
%RSD		18.510	25.880	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		107.459%	0.236	0.163
%RSD		0.508	17.340	9.748
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.034	0.000	
%RSD		17.020	0.000	

240-12619 -c-16 -a@5, 6/29/2012 20:27:32 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		82.940%	1.717	17.910
%RSD		13.191	5.066	8.907
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1062.000	37450.000	M 35260.000
%RSD		1.546	1.080	M 0.881
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4580.000	88450.000
%RSD		T 0.000	T 1.476	0.972
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 91.435%	96.646%	M 1545.000
%RSD		T 1.481	1.060	M 0.370
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		105.000	70.270	3.261
%RSD		0.458	0.130	36.080
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 804.800	TM 57720.000	25.630
%RSD		T 1.127	TM 0.703	0.384
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		58.640	65.340	91.290
%RSD		0.735	0.969	2.028
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		93.192%	6.846	0.140
%RSD		1.237	1.645	75.520
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		1.264	74.250	1.005
%RSD		20.840	0.222	10.470
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.037	-23.390
%RSD		0.000	5.471	27.650
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.142	93.547%	3.788
%RSD		10.340	1.597	2.217
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.367	M 240.900	0.000
%RSD		16.280	M 1.386	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		105.086%	0.223	0.252
%RSD		0.697	8.688	7.820
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		15.250	0.000	
%RSD		0.672	0.000	

SD 240-12619 -c-16 -a@25, 6/29/2012 20:33:15 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		90.809%	0.337	4.827
%RSD		14.015	6.897	8.389
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		200.700	7747.000	M 7183.000
%RSD		1.993	0.306	M 0.507
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	± 945.800	17640.000
%RSD		±0.000	± 3.119	0.817
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±102.715%	103.099%	M 315.700
%RSD		±1.824	0.492	M 2.116
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		21.340	14.010	-1.607
%RSD		2.210	0.414	27.420
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		±164.500	± 11660.000	5.206
%RSD		±0.576	±0.246	2.523
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		12.250	14.230	19.690
%RSD		2.655	4.031	4.249
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.856%	1.481	0.080
%RSD		0.075	2.631	67.970
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.197	14.400	0.290
%RSD		14.390	0.757	27.460
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.005	-7.454
%RSD		0.000	135.600	60.370
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.016	101.277%	0.747
%RSD		101.900	0.445	4.654
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.058	48.610	0.000
%RSD		58.500	0.702	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		108.497%	-0.109	-0.084
%RSD		1.243	8.473	7.560
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		3.160	0.000	
%RSD		1.252	0.000	

mb 240-49038/1 -a, 6/29/2012 20:38:56 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.514%	-0.003	1.769
%RSD		13.507	197.100	18.320
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		69.150	70.330	11.460
%RSD		1.175	8.174	12.790
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	27.290	295.200
%RSD		±0.000	2.933	1.681
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±101.419%	101.601%	0.995
%RSD		±1.600	0.938	9.144
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.053	0.000	0.285
%RSD		272.500	23420.000	188.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1.022	98.330	0.004
%RSD		1.454	0.776	294.400
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.215	0.735	4.104
%RSD		13.490	5.945	3.433
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		100.370%	0.094	0.254
%RSD		0.859	114.900	28.440
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.021	0.559	0.419
%RSD		133.800	8.032	9.999
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.007	-4.318
%RSD		0.000	132.100	20.010
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.001	100.711%	26.780
%RSD		731.700	1.375	1.656
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.012	1.396	0.000
%RSD		38.510	9.878	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		107.989%	-0.103	-0.087
%RSD		0.886	16.840	11.220
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.154	0.000	
%RSD		9.012	0.000	

Ics 240-49038/2-a, 6/29/2012 20:44:37 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		81.408%	M 919.700	94.400
%RSD		12.569	M 3.657	4.773
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10750.000	10600.000	M 9824.000
%RSD		0.901	0.373	M 0.544
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 10040.000	9937.000
%RSD		T 0.000	T 1.852	1.066
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 93.581%	96.373%	101.000
%RSD		T 0.824	0.840	2.006
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 967.300	M 978.900	86.180
%RSD		M 0.841	M 0.190	4.574
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 981.500	T 10370.000	M 982.900
%RSD		T 1.115	T 1.010	M 0.964
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 1003.000	M 1007.000	M 900.400
%RSD		M 1.210	M 1.162	M 0.492
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		93.068%	M 879.700	-3.948
%RSD		0.273	M 0.591	4.961
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 799.200	M 955.900	103.000
%RSD		M 0.374	M 0.713	0.288
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	105.000	405.800
%RSD		0.000	0.812	50.530
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 964.900	95.912%	119.000
%RSD		M 0.665	1.469	1.631
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		99.070	M 1017.000	0.000
%RSD		0.487	M 0.646	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		105.239%	94.980	TM 221.100
%RSD		0.242	0.704	TM 0.584
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1016.000	0.000	
%RSD		TM 1.013	0.000	

240-12660 -b-1-a, 6/29/2012 20:52:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		38.451%	16.840	M 435.300
%RSD		13.434	3.424	M 3.206
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2957.000	M 213300.000	TM 90180.000
%RSD		1.378	M 1.211	TM 0.359
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 5566.000	TM 905300.000
%RSD		T 0.000	T 2.359	TM 0.728
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		61.250%	58.277%	M 8129.000
%RSD		0.919	0.462	M 0.384
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 1041.000	TM 5454.000	820.400
%RSD		M 0.288	TM 0.286	3.005
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 145600.000	TM 873900.000	36.590
%RSD		TM 1.917	TM 1.134	1.053
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		169.900	M 441.000	M 1746.000
%RSD		1.031	M 0.907	M 0.858
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		57.827%	88.770	1.047
%RSD		0.487	0.596	19.480
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		8.736	M 1383.000	107.900
%RSD		4.681	M 0.323	0.667
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.173	-297.000
%RSD		0.000	2.064	4.488
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		7.804	62.451%	80.120
%RSD		1.467	1.048	0.358
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		4.967	M 1374.000	0.000
%RSD		2.943	M 0.477	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		78.964%	108.700	0.996
%RSD		1.035	0.459	1.517
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 637.000	0.000	
%RSD		TM 0.679	0.000	

240-12660 -b-1-b ms, 6/29/2012 20:57:42 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		36.532%	M 857.000	M 398.700
%RSD		12.495	M 3.694	M 5.003
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11170.000	M 115500.000	TM 84880.000
%RSD		0.365	M 0.235	TM 0.201
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 13690.000	TM 668600.000
%RSD		T 0.000	T 3.469	TM 0.215
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		63.423%	63.690%	M 6747.000
%RSD		0.331	0.328	M 0.648
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 1594.000	TM 3799.000	484.800
%RSD		M 0.463	TM 0.529	0.678
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 109800.000	TM 661600.000	M 815.400
%RSD		TM 2.324	TM 0.346	M 0.525
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 917.300	M 1246.000	M 2206.000
%RSD		M 0.177	M 0.310	M 0.340
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		62.421%	M 818.500	-2.461
%RSD		0.771	M 0.176	22.440
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 651.000	TM 1858.000	178.300
%RSD		M 0.435	TM 0.408	0.355
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	78.830	187.400
%RSD		0.000	0.316	58.880
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 788.900	68.395%	150.000
%RSD		M 0.660	0.184	0.230
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		33.680	M 2041.000	0.000
%RSD		1.605	M 0.473	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.102%	132.500	187.300
%RSD		1.018	0.112	0.737
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1340.000	0.000	
%RSD		TM 0.629	0.000	

240-12660 -b-1-c msd@50, 6/29/2012 21:05:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.298%	20.150	11.030
%RSD		13.736	4.931	8.831
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		229.700	3602.000	M 1709.000
%RSD		1.062	1.040	M 0.580
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	300.700	14910.000
%RSD		± 0.000	2.539	1.408
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 93.673%	98.710%	170.200
%RSD		± 2.132	0.914	0.617
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		33.590	76.950	2.570
%RSD		0.729	1.091	6.575
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2802.000	± 10990.000	19.230
%RSD		TM 0.924	± 0.489	0.820
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		31.260	TM 4240.000	144.800
%RSD		1.211	TM 0.371	0.820
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		98.281%	20.730	-0.101
%RSD		0.730	0.437	3.105
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		19.120	35.360	3.336
%RSD		1.438	0.713	2.203
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	2.829	-5.272
%RSD		0.000	2.063	452.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		19.980	97.882%	M 375.300
%RSD		1.691	0.782	M 0.761
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		7.421	38.900	0.000
%RSD		1.226	1.714	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		105.103%	3.584	4.472
%RSD		0.767	1.939	0.538
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		123.900	0.000	
%RSD		0.994	0.000	

240-12660 -c-2-a, 6/29/2012 21:10:50 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		62.451%	14.270	45.690
%RSD		10.710	3.776	2.967
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1953.000	82940.000	<u>TM 153800.000</u>
%RSD		1.396	0.759	<u>TM 0.942</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>±0.000</u>	<u>±15980.000</u>	53350.000
%RSD		<u>±0.000</u>	<u>±1.520</u>	1.122
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>±104.536%</u>	110.268%	<u>M 2806.000</u>
%RSD		<u>±0.436</u>	1.045	<u>M 1.062</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		<u>M 387.000</u>	<u>M 389.600</u>	29.570
%RSD		<u>M 0.561</u>	<u>M 0.741</u>	5.742
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 5821.000</u>	<u>TM 260100.000</u>	103.900
%RSD		<u>TM 1.693</u>	<u>TM 0.579</u>	0.263
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		<u>M 310.700</u>	<u>M 347.700</u>	<u>M 336.700</u>
%RSD		<u>M 0.528</u>	<u>M 0.503</u>	<u>M 0.967</u>
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		100.047%	24.780	1.032
%RSD		1.442	0.696	14.340
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		5.399	190.000	3.175
%RSD		13.790	1.307	2.097
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.632	-126.300
%RSD		0.000	2.213	17.730
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.455	99.925%	19.170
%RSD		15.480	1.290	1.308
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.170	<u>M 1749.000</u>	0.000
%RSD		3.509	<u>M 0.286</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		128.772%	1.026	1.144
%RSD		0.922	3.915	0.213
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		72.550	0.000	
%RSD		0.314	0.000	

240-12660 -c-3-a, 6/29/2012 21:16:32 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		46.053%	10.630	106.400
%RSD		10.203	0.710	2.102
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3323.000	M 140900.000	TM 165200.000
%RSD		0.596	M 0.574	TM 0.330
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 26100.000	TM 250100.000
%RSD		T 0.000	T 1.564	TM 1.142
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 80.529%	83.468%	M 6388.000
%RSD		T 0.358	0.592	M 0.826
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 538.100	M 665.700	49.890
%RSD		M 0.239	M 0.446	4.868
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 12960.000	TM 353100.000	131.700
%RSD		TM 2.280	TM 0.844	0.763
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 354.400	M 425.000	M 3616.000
%RSD		M 1.450	M 0.271	M 0.351
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		76.196%	37.860	1.241
%RSD		0.332	0.138	12.990
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		4.747	M 309.100	20.480
%RSD		2.889	M 0.429	2.435
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.794	-274.200
%RSD		0.000	5.631	4.339
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		12.290	80.396%	31.240
%RSD		3.689	1.548	1.301
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		2.492	M 1716.000	0.000
%RSD		3.654	M 0.962	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		104.809%	6.530	1.446
%RSD		0.728	0.661	0.699
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		M 316.700	0.000	
%RSD		M 0.371	0.000	

240-12660 -b-4-a, 6/29/2012 21:22:20 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		39.138%	9.832	112.700
%RSD		8.651	2.914	3.109
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		4070.000	M 164700.000	TM 159600.000
%RSD		0.567	M 0.757	TM 1.013
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 26750.000	TM 432400.000
%RSD		T 0.000	T 1.303	TM 1.127
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 68.493%	74.960%	M 7085.000
%RSD		T 0.256	0.978	M 0.527
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 454.600	M 390.100	29.960
%RSD		M 0.505	M 0.437	17.420
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 4210.000	TM 286200.000	120.800
%RSD		TM 1.869	TM 0.797	0.424
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 296.500	M 364.600	M 495.200
%RSD		M 1.059	M 0.609	M 1.647
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		67.748%	28.550	1.110
%RSD		0.853	1.193	11.770
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.498	M 424.200	2.042
%RSD		4.231	M 1.137	6.397
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.378	-274.000
%RSD		0.000	6.443	21.330
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.283	74.243%	17.080
%RSD		4.117	1.350	2.109
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.726	M 1505.000	0.000
%RSD		4.680	M 0.166	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.902%	1.300	1.280
%RSD		1.356	4.816	2.491
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		77.530	0.000	
%RSD		0.200	0.000	

CCV 6/29/2012 21:28:02 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		59.626%	110.552%	110.422%
%RSD		11.559	3.199	6.336
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		100.615%	108.527%	104.252%
%RSD		0.452	0.856	0.906
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	100.170%	95.829%
%RSD		0.000	4.693	3.979
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		87.641%	92.248%	105.494%
%RSD		1.743	0.919	2.482
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		100.899%	99.601%	5.884
%RSD		1.342	0.787	13.020
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		96.544%	106.638%	99.161%
%RSD		3.936	1.231	0.688
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		101.936%	103.055%	102.129%
%RSD		1.136	0.947	1.214
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		92.626%	102.200%	-0.630
%RSD		1.831	1.114	37.300
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.883%	100.480%	108.074%
%RSD		1.682	0.432	0.695
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	107.470%	56.520
%RSD		0.000	0.812	43.680
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		108.319%	93.313%	106.966%
%RSD		0.782	1.406	0.669
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		107.896%	104.307%	0.000
%RSD		1.494	2.002	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.955%	103.452%	94.323%
%RSD		1.165	1.026	0.660
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		108.440%	0.000	
%RSD		0.217	0.000	

CCB 6/29/2012 21:34:48 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		78.289%	0.069	2.095
%RSD		12.232	15.040	21.510
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		16.520	23.620	5.689
%RSD		11.690	16.120	5.229
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	23.220	53.650
%RSD		±0.000	6.618	16.190
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±100.531%	100.112%	0.680
%RSD		±1.261	1.203	64.980
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.003	-0.160	-1.633
%RSD		5327.000	25.310	20.910
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.336	20.060	0.042
%RSD		14.120	8.653	26.440
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.097	0.052	1.279
%RSD		34.310	43.220	1.906
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.266%	0.129	0.013
%RSD		0.449	111.900	280.200
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.145	0.071	0.236
%RSD		49.520	10.230	15.810
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.041	-1.763
%RSD		0.000	6.135	12.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.054	99.261%	0.027
%RSD		46.860	0.769	168.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.106	0.106	0.000
%RSD		21.100	35.240	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		104.469%	0.286	0.125
%RSD		0.815	25.730	26.840
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.061	0.000	
%RSD		4.799	0.000	

240-12660 -b-5-a, 6/29/2012 21:40:32 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.694%	4.384	72.160
%RSD		10.530	1.549	5.013
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2240.000	28230.000	M 42760.000
%RSD		1.831	0.971	M 0.767
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4313.000	55350.000
%RSD		T 0.000	T 1.180	0.578
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 96.476%	95.649%	M 3575.000
%RSD		T 0.491	0.980	M 1.205
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 214.800	M 333.300	26.760
%RSD		M 1.033	M 0.512	14.140
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 6939.000	TM 209800.000	47.450
%RSD		TM 1.552	TM 1.191	1.241
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		165.300	M 335.500	M 2778.000
%RSD		2.131	M 1.408	M 0.522
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		93.874%	49.920	0.526
%RSD		0.116	0.318	15.850
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		4.141	M 330.600	34.850
%RSD		7.922	M 0.629	0.986
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.738	-61.790
%RSD		0.000	4.838	26.560
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		8.093	94.956%	44.390
%RSD		0.811	0.455	0.845
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		4.870	M 564.500	0.000
%RSD		1.594	M 0.468	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		114.126%	8.731	0.655
%RSD		0.980	1.594	4.239
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 362.200	0.000	
%RSD		TM 0.674	0.000	

240-12660 -c-6-a, 6/29/2012 21:46:15 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		49.887%	7.604	78.620
%RSD		10.897	2.099	6.693
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3515.000	M 150000.000	TM 124600.000
%RSD		0.418	M 0.205	TM 0.471
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 19150.000	TM 333400.000
%RSD		T 0.000	T 1.379	TM 0.898
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 78.278%	82.016%	M 6348.000
%RSD		T 0.749	0.368	M 1.143
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 447.400	M 281.100	21.050
%RSD		M 0.375	M 0.279	19.740
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 4146.000	TM 240200.000	100.800
%RSD		TM 1.512	TM 1.031	0.953
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 245.200	M 281.000	M 350.500
%RSD		M 0.724	M 0.686	M 0.586
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		76.067%	25.960	1.011
%RSD		1.662	3.209	8.619
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.995	M 332.300	2.374
%RSD		13.050	M 0.178	3.584
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.279	-206.500
%RSD		0.000	7.845	11.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.840	79.710%	15.220
%RSD		6.625	0.788	2.342
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.783	M 1137.000	0.000
%RSD		3.415	M 0.569	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.238%	1.056	1.005
%RSD		1.373	2.275	1.283
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		62.800	0.000	
%RSD		0.396	0.000	

240-12660 -b-7-a, 6/29/2012 21:51:56 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		43.600%	5.195	59.500
%RSD		11.081	3.444	5.429
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1969.000	<u>M 108000.000</u>	<u>M 45520.000</u>
%RSD		0.668	<u>M 1.272</u>	<u>M 0.388</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>T 0.000</u>	<u>T 3922.000</u>	<u>TM 268900.000</u>
%RSD		<u>T 0.000</u>	<u>T 1.166</u>	<u>TM 3.985</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 72.843%</u>	73.244%	<u>M 2509.000</u>
%RSD		<u>T 3.755</u>	0.579	<u>M 0.891</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		164.500	<u>M 475.900</u>	35.690
%RSD		1.526	<u>M 0.744</u>	4.571
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 10510.000</u>	<u>TM 787500.000</u>	77.000
%RSD		<u>TM 4.929</u>	<u>TM 1.023</u>	0.454
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		<u>M 353.000</u>	<u>M 1613.000</u>	<u>M 5084.000</u>
%RSD		<u>M 0.928</u>	<u>M 0.613</u>	<u>M 0.690</u>
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		74.639%	106.000	0.574
%RSD		0.427	1.117	27.790
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		4.709	<u>M 441.100</u>	124.400
%RSD		17.220	<u>M 0.405</u>	0.706
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.374	-90.120
%RSD		0.000	1.687	33.380
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		15.240	77.611%	<u>M 328.600</u>
%RSD		1.029	1.064	<u>M 0.750</u>
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		32.510	<u>M 991.900</u>	0.000
%RSD		0.159	<u>M 0.631</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.453%	16.760	0.643
%RSD		1.032	0.243	1.429
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		<u>TM 2479.000</u>	0.000	
%RSD		<u>TM 0.439</u>	0.000	

240-12660 -c-8-a, 6/29/2012 21:57:37 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		57.516%	10.910	90.430
%RSD		10.886	0.886	2.545
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2642.000	M 126600.000	TM 167200.000
%RSD		0.205	M 0.190	TM 0.311
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 25780.000	M 118400.000
%RSD		T 0.000	T 2.088	M 0.732
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 101.651%	104.917%	M 6041.000
%RSD		T 0.601	0.551	M 0.385
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 444.100	M 386.900	30.250
%RSD		M 0.243	M 0.498	12.380
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3416.000	TM 293500.000	123.900
%RSD		TM 1.597	TM 0.548	0.200
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 335.300	M 383.600	M 583.000
%RSD		M 0.151	M 0.208	M 0.341
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.225%	30.490	1.015
%RSD		0.342	0.527	6.746
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		5.384	M 259.500	5.798
%RSD		8.475	M 1.102	4.432
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.669	-230.600
%RSD		0.000	2.080	11.640
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.781	95.798%	23.070
%RSD		6.678	1.456	0.490
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		3.594	M 1443.000	0.000
%RSD		1.484	M 0.942	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		119.260%	1.615	1.348
%RSD		1.319	1.855	1.175
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		108.200	0.000	
%RSD		0.437	0.000	

240-12660 -b-9-a, 6/29/2012 22:03:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		51.015%	8.296	73.720
%RSD		9.274	1.110	1.701
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3466.000	M 156100.000	TM 133800.000
%RSD		0.483	M 0.072	TM 0.644
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 17610.000	TM 235400.000
%RSD		T 0.000	T 1.633	TM 0.254
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 86.441%	89.321%	M 6474.000
%RSD		T 0.236	0.106	M 0.568
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 496.700	M 359.000	21.940
%RSD		M 0.297	M 0.295	18.280
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3935.000	TM 258100.000	104.500
%RSD		TM 1.663	TM 0.602	0.846
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 251.100	M 293.000	M 352.700
%RSD		M 0.240	M 0.657	M 0.775
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		80.625%	26.750	1.084
%RSD		0.129	0.504	12.020
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.694	M 257.000	1.739
%RSD		1.891	M 0.741	7.661
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.315	-206.300
%RSD		0.000	8.384	5.781
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.599	83.707%	19.540
%RSD		4.992	0.680	1.292
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.800	M 1106.000	0.000
%RSD		2.577	M 0.663	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		105.950%	0.943	1.071
%RSD		0.619	2.344	0.438
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		71.300	0.000	
%RSD		0.323	0.000	

240-12660 -d-10 -a, 6/29/2012 22:08:58 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		46.802%	4.954	141.000
%RSD		11.031	5.874	4.599
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1950.000	33630.000	M 49500.000
%RSD		0.819	0.906	M 1.058
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3502.000	66080.000
%RSD		T 0.000	T 2.815	0.615
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		75.115%	73.181%	M 3370.000
%RSD		0.521	1.130	M 0.808
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		190.400	M 475.800	37.460
%RSD		2.153	M 0.257	12.390
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 7488.000	TM 790100.000	89.220
%RSD		TM 1.492	TM 0.147	0.545
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 554.800	M 1658.000	M 7673.000
%RSD		M 0.924	M 0.682	M 0.766
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		74.327%	123.200	0.354
%RSD		0.901	0.719	32.040
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		5.603	M 273.200	74.950
%RSD		11.550	M 0.741	0.900
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.727	-372.000
%RSD		0.000	3.718	19.220
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		33.810	76.611%	M 709.200
%RSD		0.568	1.330	M 0.311
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		24.590	M 889.200	0.000
%RSD		0.656	M 0.404	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		87.483%	11.720	0.908
%RSD		0.570	0.625	0.823
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 3106.000	0.000	
%RSD		TM 0.610	0.000	

240-12660 -c-11 -a, 6/29/2012 22:14:40 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		48.669%	8.636	145.200
%RSD		10.533	1.638	4.019
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1502.000	40970.000	M 49130.000
%RSD		1.012	0.780	M 0.053
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4864.000	M 239700.000
%RSD		T 0.000	T 3.153	M 0.877
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		76.577%	74.410%	M 3576.000
%RSD		1.146	0.603	M 1.171
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 414.000	M 1357.000	118.900
%RSD		M 1.063	M 0.747	4.972
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 78700.000	TM 640400.000	96.250
%RSD		TM 2.213	TM 0.724	0.615
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		139.100	M 416.900	M 1885.000
%RSD		0.829	M 1.211	M 0.527
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		73.787%	90.220	0.540
%RSD		1.487	1.251	9.275
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		6.813	M 451.300	52.610
%RSD		11.680	M 0.995	1.641
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.016	-164.500
%RSD		0.000	5.911	26.660
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		9.745	76.558%	79.570
%RSD		2.524	0.555	0.745
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		6.689	M 1045.000	0.000
%RSD		1.960	M 0.597	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.663%	45.570	1.280
%RSD		0.967	0.097	1.828
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 694.700	0.000	
%RSD		TM 0.358	0.000	

240-12660 -c-12 -a, 6/29/2012 22:20:21 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.572%	10.300	27.370
%RSD		10.301	1.358	2.513
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1796.000	80650.000	TM 143500.000
%RSD		0.886	0.660	TM 0.618
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±14270.000	37120.000
%RSD		±0.000	±1.782	0.171
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±108.445%	111.863%	M 1511.000
%RSD		±0.481	0.736	M 1.069
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 332.400	M 335.600	22.100
%RSD		M 0.350	M 0.379	15.420
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2318.000	TM 231600.000	92.850
%RSD		TM 1.926	TM 0.348	1.000
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 304.200	M 338.200	M 321.900
%RSD		M 0.303	M 0.400	M 1.766
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		103.146%	22.220	1.002
%RSD		0.276	1.338	3.282
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		5.177	143.700	0.915
%RSD		4.216	1.223	3.567
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.490	-128.100
%RSD		0.000	2.369	18.150
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.176	100.793%	20.740
%RSD		16.520	1.049	2.224
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.896	M 1550.000	0.000
%RSD		1.594	M 0.576	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		132.135%	0.347	0.614
%RSD		0.887	10.280	3.925
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		61.070	0.000	
%RSD		0.363	0.000	

240-12660 -b-13 -a, 6/29/2012 22:26:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		32.732%	36.510	M 436.400
%RSD		16.257	6.104	M 7.124
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3531.000	M 256900.000	TM 173400.000
%RSD		0.480	M 0.357	TM 0.619
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 8473.000	TM 1138000.000
%RSD		T 0.000	T 2.842	TM 0.403
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		65.332%	63.186%	M 8268.000
%RSD		1.823	0.893	M 0.905
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 721.800	TM 3309.000	487.300
%RSD		M 0.807	TM 0.412	2.019
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 107900.000	TM 688700.000	28.130
%RSD		TM 1.673	TM 0.427	1.299
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		95.950	M 250.800	M 1164.000
%RSD		0.217	M 1.267	M 0.691
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		59.322%	50.450	1.566
%RSD		2.127	2.346	10.080
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		20.440	M 1661.000	73.800
%RSD		2.616	M 0.523	0.436
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.192	-424.800
%RSD		0.000	4.242	5.673
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		5.861	63.769%	93.650
%RSD		1.867	0.891	1.683
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		6.718	M 2814.000	0.000
%RSD		1.456	M 1.158	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.869%	41.910	0.274
%RSD		1.495	0.547	0.825
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1671.000	0.000	
%RSD		TM 0.173	0.000	

240-12660 -c-14 -e, 6/29/2012 22:31:49 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		51.554%	10.510	102.700
%RSD		11.197	2.198	3.626
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3847.000	M 164100.000	TM 174500.000
%RSD		0.928	M 1.042	TM 0.951
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 24800.000	TM 288500.000
%RSD		T 0.000	T 2.413	TM 0.767
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 89.840%	91.219%	M 6956.000
%RSD		T 0.556	0.398	M 1.289
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 506.300	M 394.100	30.430
%RSD		M 0.678	M 0.554	9.900
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 4358.000	TM 302100.000	123.400
%RSD		TM 1.738	TM 0.485	0.267
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 319.300	M 362.500	M 431.800
%RSD		M 0.779	M 0.348	M 0.318
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.445%	30.430	1.329
%RSD		0.291	0.997	14.570
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		4.608	M 336.400	2.062
%RSD		6.544	M 0.367	1.794
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.374	-306.800
%RSD		0.000	6.481	7.280
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.780	83.758%	16.990
%RSD		5.685	0.659	0.186
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.819	M 1560.000	0.000
%RSD		5.725	M 0.284	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		106.184%	1.348	1.101
%RSD		1.199	5.843	1.567
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		76.280	0.000	
%RSD		0.441	0.000	

CCV 6/29/2012 22:37:39 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.930%	111.193%	111.618%
%RSD		10.374	2.640	4.439
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		99.755%	108.697%	105.892%
%RSD		0.676	0.363	1.092
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	104.271%	98.714%
%RSD		0.000	1.056	1.020
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		90.946%	91.155%	107.134%
%RSD		1.626	0.215	4.413
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		101.987%	99.524%	4.832
%RSD		1.496	1.086	31.530
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		98.809%	106.515%	98.885%
%RSD		0.898	0.958	0.170
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		99.571%	100.844%	101.028%
%RSD		1.981	0.641	1.375
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.899%	102.777%	-0.514
%RSD		0.971	0.469	38.650
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		102.033%	99.914%	106.665%
%RSD		0.879	0.518	0.790
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	106.148%	-11.210
%RSD		0.000	0.595	320.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		106.546%	88.448%	106.760%
%RSD		0.934	1.186	0.446
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		108.562%	105.812%	0.000
%RSD		0.874	0.583	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.312%	102.528%	94.708%
%RSD		0.438	0.538	0.603
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		107.124%	0.000	
%RSD		0.515	0.000	

CCB 6/29/2012 22:43:51 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		79.222%	0.068	2.204
%RSD		11.466	7.785	18.010
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		17.870	25.160	5.378
%RSD		6.423	5.120	12.710
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	27.190	70.990
%RSD		±0.000	4.396	5.301
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±100.303%	97.059%	0.659
%RSD		±2.185	1.541	25.900
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.017	-0.235	-2.194
%RSD		1319.000	28.010	12.920
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.814	22.330	0.049
%RSD		1.630	7.850	28.720
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.060	0.025	1.255
%RSD		31.280	122.300	9.067
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		95.715%	0.194	0.009
%RSD		1.687	14.530	174.900
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.115	0.076	0.230
%RSD		53.360	32.040	30.900
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.038	1.309
%RSD		0.000	17.500	34.270
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.077	93.313%	0.061
%RSD		23.770	0.841	88.180
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.121	0.129	0.000
%RSD		15.520	11.160	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.591%	0.311	0.078
%RSD		1.193	16.760	44.550
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.106	0.000	
%RSD		2.498	0.000	

mb 240-49253/1 -a, 6/29/2012 22:49:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		77.012%	-0.008	1.918
%RSD		13.799	29.030	18.530
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		64.150	39.100	5.854
%RSD		4.326	13.400	18.340
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	38.710	256.000
%RSD		± 0.000	4.493	2.585
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 92.534%	93.245%	0.848
%RSD		± 1.399	0.762	34.550
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.016	0.324	-1.191
%RSD		2094.000	7.416	44.340
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1.381	98.490	-0.005
%RSD		2.107	0.656	66.970
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.459	0.541	13.780
%RSD		3.998	9.211	2.439
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.471%	0.133	0.184
%RSD		0.175	29.740	35.870
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.048	0.388	-0.044
%RSD		112.900	14.920	119.800
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.002	-0.800
%RSD		0.000	225.600	142.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.006	89.705%	25.820
%RSD		390.900	0.882	1.316
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.005	0.995	0.000
%RSD		91.520	7.037	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.791%	0.059	-0.079
%RSD		0.874	44.150	15.820
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.206	0.000	
%RSD		7.265	0.000	

Ics 240-49253/2-a, 6/29/2012 22:55:15 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		69.725%	M 924.200	94.670
%RSD		12.357	M 4.240	6.315
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10700.000	10740.000	M 9818.000
%RSD		0.995	1.549	M 0.296
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 10070.000	9801.000
%RSD		T 0.000	T 1.537	1.833
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 84.737%	87.696%	99.280
%RSD		T 1.075	0.234	0.855
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 944.600	M 948.200	84.500
%RSD		M 0.639	M 0.077	10.570
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 966.900	T 10250.000	M 947.800
%RSD		T 0.840	T 1.273	M 0.538
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 975.500	M 983.300	M 882.400
%RSD		M 0.284	M 0.117	M 0.693
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.061%	M 864.800	-3.730
%RSD		0.425	M 0.359	18.860
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 778.000	M 946.900	102.800
%RSD		M 0.769	M 0.493	0.528
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	105.200	493.700
%RSD		0.000	0.440	9.512
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 945.800	85.456%	120.100
%RSD		M 0.702	0.319	0.944
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		98.320	M 995.900	0.000
%RSD		0.353	M 1.324	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.393%	94.010	M 229.100
%RSD		0.494	0.584	M 0.821
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		T 1006.000	0.000	
%RSD		T 0.398	0.000	

240-12692 -c-1-a, 6/29/2012 23:02:30 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		58.618%	4.103	44.680
%RSD		10.692	3.962	5.187
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1547.000	M 121100.000	M 38410.000
%RSD		0.831	M 0.775	M 0.601
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3064.000	TM 228700.000
%RSD		T 0.000	T 4.360	TM 5.796
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 83.680%	85.390%	M 3199.000
%RSD		T 2.418	0.656	M 0.739
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 251.900	91.240	6.144
%RSD		M 0.555	0.223	6.690
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2827.000	TM 232600.000	72.100
%RSD		TM 3.952	TM 0.639	0.080
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		142.500	M 300.000	M 349.500
%RSD		0.738	M 0.431	M 0.950
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.301%	86.730	0.858
%RSD		1.071	1.847	6.593
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		4.607	158.200	5.044
%RSD		14.170	0.530	0.432
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.286	-93.910
%RSD		0.000	5.981	9.840
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.134	82.981%	19.510
%RSD		6.278	1.293	0.472
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.691	M 278.500	0.000
%RSD		7.312	M 0.491	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.468%	1.450	1.266
%RSD		0.741	2.737	1.865
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		57.000	0.000	
%RSD		0.727	0.000	

240-12692 -c-1-b ms, 6/29/2012 23:08:11 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		55.131%	M 934.900	126.300
%RSD		10.254	M 1.989	4.062
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		12450.000	M 122900.000	TM 59410.000
%RSD		0.874	M 0.278	TM 0.520
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 13140.000	TM 275600.000
%RSD		T 0.000	T 1.498	TM 0.810
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 82.394%	84.865%	M 4773.000
%RSD		T 0.463	0.384	M 0.667
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 1233.000	M 1031.000	80.110
%RSD		M 0.508	M 0.161	3.119
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3815.000	TM 213900.000	M 979.800
%RSD		TM 1.651	TM 0.372	M 0.038
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 1085.000	M 1198.000	M 1139.000
%RSD		M 0.526	M 0.273	M 0.028
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.281%	M 895.800	-3.516
%RSD		0.700	M 0.639	15.050
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 731.200	M 1136.000	103.700
%RSD		M 0.909	M 0.451	0.503
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	92.840	463.500
%RSD		0.000	0.706	10.120
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 887.800	83.381%	105.100
%RSD		M 0.503	1.309	0.226
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		54.350	M 1280.000	0.000
%RSD		1.386	M 0.562	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.810%	74.060	195.500
%RSD		1.089	0.500	0.256
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 903.000	0.000	
%RSD		TM 0.524	0.000	

240-12692 -c-1-c msd, 6/29/2012 23:15:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		58.282%	M 937.700	126.300
%RSD		9.907	M 1.301	4.063
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11560.000	M 119300.000	M 54730.000
%RSD		1.237	M 0.654	M 0.785
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 12910.000	TM 250700.000
%RSD		T 0.000	T 1.379	TM 0.423
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 83.927%	85.795%	M 3853.000
%RSD		T 0.764	1.053	M 0.694
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 1169.000	M 1037.000	90.660
%RSD		M 1.040	M 0.701	15.930
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3474.000	TM 249600.000	M 973.800
%RSD		TM 1.021	TM 1.119	M 0.737
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 1056.000	M 1238.000	M 1165.000
%RSD		M 1.144	M 0.655	M 0.230
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.447%	M 942.200	-3.044
%RSD		0.740	M 0.666	27.060
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 748.200	M 1098.000	105.300
%RSD		M 0.716	M 0.551	0.464
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	93.150	320.100
%RSD		0.000	0.741	95.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 894.200	82.824%	106.200
%RSD		M 0.911	1.519	0.446
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		56.430	M 1357.000	0.000
%RSD		0.687	M 0.356	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.128%	73.620	196.300
%RSD		1.021	0.600	0.798
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 891.600	0.000	
%RSD		TM 0.531	0.000	

240-12692 -c-2-a, 6/29/2012 23:23:01 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		77.868%	2.850	25.380
%RSD		12.423	1.973	4.490
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		4281.000	60360.000	TM 63320.000
%RSD		1.748	0.866	TM 1.460
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		TM 0.000	TM 4515.000	90890.000
%RSD		TM 0.000	TM 0.691	0.650
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		TM 108.538%	106.491%	M 5263.000
%RSD		TM 0.989	0.817	M 0.601
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 353.200	140.900	6.929
%RSD		M 0.852	0.748	9.921
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2264.000	TM 176000.000	75.800
%RSD		TM 1.234	TM 0.901	0.143
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 220.500	M 298.600	M 269.500
%RSD		M 0.522	M 0.241	M 0.324
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.368%	21.680	0.732
%RSD		1.312	1.651	14.370
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.303	M 199.800	6.508
%RSD		6.490	M 0.844	1.573
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.176	-94.820
%RSD		0.000	7.150	17.130
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.822	99.719%	17.340
%RSD		9.106	0.623	1.057
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.990	M 300.300	0.000
%RSD		5.463	M 0.999	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		114.770%	0.668	0.767
%RSD		1.705	2.702	4.150
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		24.250	0.000	
%RSD		0.979	0.000	

240-12692 -b-3-a, 6/29/2012 23:28:43 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		35.681%	10.200	M 210.000
%RSD		14.983	5.462	M 6.304
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1253.000	77560.000	M 56970.000
%RSD		0.940	0.382	M 0.967
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4267.000	TM 429900.000
%RSD		T 0.000	T 2.879	TM 0.795
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 61.610%	61.554%	M 5253.000
%RSD		T 1.623	0.908	M 0.047
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 789.800	M 1749.000	144.100
%RSD		M 0.453	M 0.103	2.994
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 128700.000	TM 1506000.000	65.690
%RSD		TM 1.673	TM 0.342	1.309
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		53.950	162.900	M 859.500
%RSD		0.404	0.206	M 0.645
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		69.959%	95.980	0.669
%RSD		1.253	0.623	8.918
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.617	M 390.000	103.700
%RSD		13.730	M 0.393	0.736
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.706	-154.700
%RSD		0.000	2.134	19.970
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		9.157	66.251%	46.460
%RSD		2.506	0.704	1.185
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		2.708	M 722.600	0.000
%RSD		3.574	M 0.736	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		78.326%	94.120	0.298
%RSD		1.358	0.217	7.070
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 525.100	0.000	
%RSD		TM 0.473	0.000	

240-12692 -c-4-a, 6/29/2012 23:34:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		68.993%	3.923	33.510
%RSD		12.328	0.907	4.777
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1942.000	43340.000	TM 54300.000
%RSD		0.740	0.727	TM 0.529
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		^T 0.000	^T 4123.000	52740.000
%RSD		^T 0.000	^T 1.783	0.689
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		^T 101.033%	102.588%	^M 5917.000
%RSD		^T 0.475	0.702	^M 0.413
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		^M 318.400	133.800	5.653
%RSD		^M 0.706	1.165	57.950
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 4076.000	TM 353100.000	66.080
%RSD		TM 1.791	TM 0.670	0.889
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		155.000	190.000	^M 265.200
%RSD		1.579	1.140	^M 1.007
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		101.149%	37.810	0.708
%RSD		0.763	0.872	16.270
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.815	114.600	5.126
%RSD		5.816	0.790	5.421
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.187	-80.490
%RSD		0.000	3.610	4.847
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.687	96.713%	14.470
%RSD		8.756	1.166	0.634
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.897	^M 293.400	0.000
%RSD		4.892	^M 1.066	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		113.227%	1.482	0.296
%RSD		0.978	5.614	2.352
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		39.670	0.000	
%RSD		0.683	0.000	

240-12692 -b-5-a, 6/29/2012 23:40:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		31.883%	16.440	M 734.800
%RSD		16.327	6.210	M 8.503
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3298.000	M 222900.000	TM 86310.000
%RSD		0.778	M 0.331	TM 0.340
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 5816.000	TM 936100.000
%RSD		T 0.000	T 1.885	TM 0.885
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		57.562%	54.888%	M 10510.000
%RSD		2.381	0.923	M 0.616
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 1617.000	TM 5505.000	794.200
%RSD		M 0.735	TM 0.758	1.866
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 259800.000	TM 1312000.000	34.100
%RSD		TM 1.192	TM 0.660	0.964
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		186.500	M 791.500	M 2473.000
%RSD		0.810	M 0.523	M 0.607
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		56.539%	57.980	1.148
%RSD		1.449	0.856	18.230
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		8.298	M 911.200	154.100
%RSD		7.135	M 0.528	0.812
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.232	-278.000
%RSD		0.000	3.720	25.510
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		20.360	58.343%	141.500
%RSD		4.580	0.913	1.426
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		5.535	M 1735.000	0.000
%RSD		3.679	M 0.445	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		69.917%	146.300	0.284
%RSD		1.327	0.456	7.595
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 986.800	0.000	
%RSD		TM 0.634	0.000	

240-12692 -c-6-a, 6/29/2012 23:45:49 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		53.572%	8.101	81.450
%RSD		13.779	4.130	6.154
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		444.200	78140.000	M26850.000
%RSD		1.187	0.811	M0.775
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±6940.000	78850.000
%RSD		±0.000	±3.056	0.194
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		76.925%	72.041%	M819.000
%RSD		1.117	1.668	M1.850
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		152.700	53.760	-0.768
%RSD		1.543	1.165	96.130
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM45840.000	TM971800.000	96.660
%RSD		TM1.770	TM1.033	1.257
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		37.530	69.530	72.570
%RSD		1.454	1.034	0.491
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		77.357%	M221.500	0.452
%RSD		1.593	M1.579	6.024
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.283	183.400	9.014
%RSD		6.423	0.586	3.703
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.042	-48.420
%RSD		0.000	7.037	1.455
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.207	74.795%	9.660
%RSD		23.960	0.629	1.360
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.357	M360.700	0.000
%RSD		6.840	M0.856	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.883%	5.529	0.242
%RSD		1.195	0.586	3.779
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		15.570	0.000	
%RSD		0.134	0.000	

CCV 6/29/2012 23:51:34 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		69.431%	105.981%	106.317%
%RSD		12.195	2.846	5.656
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>103.110%</u>	112.606%	110.460%
%RSD		<u>10.753</u>	0.530	1.950
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>106.514%</u>	99.301%
%RSD		<u>10.000</u>	<u>10.748</u>	1.155
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>84.726%</u>	85.464%	105.933%
%RSD		<u>1.272</u>	1.267	3.888
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		98.921%	97.551%	4.749
%RSD		1.271	1.764	31.910
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>99.161%</u>	<u>108.582%</u>	98.476%
%RSD		<u>1.037</u>	<u>1.201</u>	1.478
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		100.446%	101.684%	102.040%
%RSD		2.225	1.666	2.293
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		82.991%	102.310%	-0.531
%RSD		0.607	1.334	27.990
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.552%	100.493%	107.012%
%RSD		1.392	1.121	1.157
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	107.334%	-8.001
%RSD		0.000	0.257	690.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		107.925%	81.145%	107.543%
%RSD		0.888	0.942	1.750
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		109.235%	104.045%	0.000
%RSD		0.863	1.250	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		88.129%	103.711%	95.413%
%RSD		0.238	0.865	0.824
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		109.538%	0.000	
%RSD		0.605	0.000	

CCB 6/29/2012 23:57:46 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		78.316%	0.094	2.518
%RSD		14.274	8.152	17.830
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		32.650	45.210	10.180
%RSD		16.850	31.990	11.200
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	36.740	82.630
%RSD		±0.000	0.690	16.200
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±89.436%	89.602%	0.830
%RSD		±2.420	1.446	50.380
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.227	-0.165	-4.742
%RSD		53.130	16.180	6.442
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		2.575	98.480	0.071
%RSD		2.686	27.960	6.464
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.130	0.120	1.386
%RSD		15.740	64.960	14.470
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		88.786%	0.203	-0.031
%RSD		0.334	29.480	30.300
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.155	0.111	0.343
%RSD		54.690	9.822	21.430
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.063	-0.610
%RSD		0.000	18.420	252.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.093	85.706%	0.058
%RSD		22.330	1.159	70.340
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.152	0.205	0.000
%RSD		7.254	24.770	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.896%	0.439	0.130
%RSD		0.434	20.920	32.460
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.123	0.000	
%RSD		17.650	0.000	

240-12692 -b-7-a, 6/30/2012 00:03:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		51.146%	7.582	89.540
%RSD		12.432	1.485	7.593
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		405.000	57990.000	M 18840.000
%RSD		1.509	0.516	M 0.626
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±5105.000	85480.000
%RSD		±0.000	±2.972	0.530
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		74.860%	71.965%	M 800.300
%RSD		0.864	0.736	M 3.111
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		141.400	M 328.800	23.480
%RSD		1.040	M 0.362	4.625
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 41140.000	TM 848900.000	91.780
%RSD		TM 1.963	TM 0.506	0.388
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		31.200	63.220	82.450
%RSD		0.710	1.344	1.266
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		74.235%	M 242.900	0.352
%RSD		1.435	M 0.902	21.180
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		1.841	149.400	27.960
%RSD		8.192	0.800	2.289
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.109	-36.540
%RSD		0.000	6.163	18.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.428	73.154%	16.260
%RSD		6.693	0.660	1.708
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.647	M 446.500	0.000
%RSD		8.008	M 0.920	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		81.662%	9.637	0.525
%RSD		1.858	1.066	4.849
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		37.100	0.000	
%RSD		0.880	0.000	

240-12692 -b-8-a, 6/30/2012 00:09:14 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.263%	8.129	31.040
%RSD		10.889	2.467	4.039
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1527.000	53480.000	TM 93210.000
%RSD		1.060	0.172	TM 0.485
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		^T 0.000	^T 6273.000	27090.000
%RSD		^T 0.000	^T 1.451	0.560
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		^T 106.589%	109.526%	^M 5571.000
%RSD		^T 0.558	0.740	^M 0.176
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		^M 381.700	^M 339.100	22.060
%RSD		^M 0.634	^M 0.065	10.350
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3430.000	TM 223200.000	113.500
%RSD		TM 1.848	TM 0.883	0.378
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		^M 366.800	^M 342.700	^M 592.200
%RSD		^M 1.047	^M 0.373	^M 0.543
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.944%	27.780	0.873
%RSD		1.020	0.988	22.230
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		7.272	77.200	5.057
%RSD		3.455	0.911	5.362
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.279	-162.100
%RSD		0.000	5.860	9.338
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		2.575	93.079%	12.860
%RSD		4.486	1.679	2.034
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.818	^M 459.900	0.000
%RSD		7.729	^M 0.578	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		123.163%	0.532	0.364
%RSD		1.546	5.697	3.090
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		30.240	0.000	
%RSD		0.979	0.000	

240-12692 -b-9-a, 6/30/2012 00:14:56 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		48.773%	6.554	81.430
%RSD		14.534	6.187	5.363
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2099.000	M 133000.000	M 48370.000
%RSD		0.681	M 0.470	M 0.761
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 5928.000	M 205800.000
%RSD		T 0.000	T 3.430	M 0.668
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		82.268%	76.271%	M 2392.000
%RSD		1.041	0.227	M 1.008
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 244.300	178.000	11.030
%RSD		M 0.334	0.687	17.630
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 14950.000	TM 1111000.000	70.570
%RSD		TM 1.771	TM 0.960	1.289
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		119.200	M 271.100	M 2307.000
%RSD		0.283	M 0.475	M 0.393
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.712%	188.500	0.689
%RSD		0.307	0.877	12.080
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		6.956	M 360.400	15.280
%RSD		2.726	M 0.712	0.875
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.904	-133.300
%RSD		0.000	3.598	36.880
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		14.130	76.212%	72.950
%RSD		2.362	0.547	0.896
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		4.415	M 695.700	0.000
%RSD		2.435	M 0.498	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.208%	8.872	1.012
%RSD		0.591	1.306	1.702
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 843.500	0.000	
%RSD		TM 0.803	0.000	

240-12692 -c-10 -a, 6/30/2012 00:20:39 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.959%	5.658	49.520
%RSD		10.481	3.748	3.435
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1169.000	10440.000	M 23640.000
%RSD		1.161	2.286	M 1.203
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±2650.000	29100.000
%RSD		±0.000	±1.030	0.225
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±89.250%	87.903%	M 1627.000
%RSD		±0.531	1.398	M 1.523
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		131.600	93.810	0.757
%RSD		0.794	1.125	20.160
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 5700.000	TM 442600.000	51.250
%RSD		TM 1.527	TM 1.737	1.695
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		79.690	140.900	M 264.500
%RSD		1.596	1.240	M 1.097
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		88.825%	67.880	0.311
%RSD		0.473	0.736	5.892
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		7.900	M 247.500	7.695
%RSD		4.644	M 0.649	2.926
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.325	-68.090
%RSD		0.000	3.853	13.890
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.883	85.787%	19.220
%RSD		5.504	0.316	2.176
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.264	M 462.800	0.000
%RSD		2.242	M 1.437	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.518%	1.988	0.241
%RSD		0.168	2.248	3.166
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		84.290	0.000	
%RSD		0.777	0.000	

240-12692 -d-11 -a, 6/30/2012 00:26:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		47.185%	6.734	179.600
%RSD		14.668	7.973	7.319
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3305.000	81420.000	M 52400.000
%RSD		0.637	0.617	M 0.936
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 7116.000	TM 278700.000
%RSD		T 0.000	T 1.358	TM 3.417
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 73.636%	71.167%	M 2468.000
%RSD		T 0.746	0.604	M 0.471
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 190.300	TM 2963.000	399.200
%RSD		M 8.756	TM 0.771	10.210
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 135100.000	TM 1157000.000	156.600
%RSD		TM 3.317	TM 1.196	0.906
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 574.400	M 2751.000	TM 77400.000
%RSD		M 0.249	M 0.505	TM 0.568
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		78.697%	M 259.900	0.541
%RSD		0.322	M 0.529	9.050
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		7.225	M 442.300	M 649.100
%RSD		8.992	M 0.576	M 0.548
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	59.430	256.800
%RSD		0.000	0.614	46.260
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 585.100	76.662%	M 523.500
%RSD		M 0.583	0.293	M 0.748
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		52.900	M 654.600	0.000
%RSD		1.443	M 0.704	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.373%	34.380	8.811
%RSD		0.935	0.864	0.520
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 28390.000	T 0.000	
%RSD		TM 0.425	T 0.000	

240-12692 -b-12 -a, 6/30/2012 00:32:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		64.706%	6.246	62.470
%RSD		12.281	1.792	5.082
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3010.000	M 102500.000	TM 100900.000
%RSD		1.223	M 0.458	TM 0.129
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 15480.000	M 185000.000
%RSD		T 0.000	T 2.429	M 1.487
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 99.219%	94.976%	M 6013.000
%RSD		T 0.541	0.653	M 0.904
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 385.700	M 230.800	13.330
%RSD		M 0.483	M 0.238	5.828
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3259.000	TM 207500.000	84.820
%RSD		TM 1.832	TM 0.622	1.159
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 204.100	M 237.000	M 336.000
%RSD		M 0.574	M 1.054	M 1.027
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.594%	31.790	0.775
%RSD		0.388	2.489	16.620
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.784	M 232.600	4.336
%RSD		11.030	M 0.549	13.730
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.319	-183.300
%RSD		0.000	6.968	14.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.987	84.662%	15.270
%RSD		2.450	0.665	0.620
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.512	M 845.700	0.000
%RSD		3.784	M 0.555	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.730%	0.864	0.673
%RSD		0.517	1.821	2.542
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		57.080	0.000	
%RSD		0.593	0.000	

240-12692 -b-13 -a, 6/30/2012 00:37:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		61.560%	4.771	40.330
%RSD		10.858	2.408	4.784
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2313.000	68510.000	TM 77860.000
%RSD		1.043	0.920	TM 0.679
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		^T 0.000	^T 8332.000	91570.000
%RSD		^T 0.000	^T 1.680	0.274
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		^T 96.609%	96.515%	^M 5694.000
%RSD		^T 0.450	0.173	^M 0.867
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		^M 355.400	186.500	16.030
%RSD		^M 0.416	0.997	12.170
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3902.000	TM 225700.000	78.980
%RSD		TM 1.135	TM 0.882	1.093
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		196.800	^M 286.600	^M 356.400
%RSD		1.239	^M 0.890	^M 0.499
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.591%	26.020	0.890
%RSD		0.660	0.924	8.526
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.832	146.800	4.003
%RSD		9.128	1.608	0.952
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.365	-169.100
%RSD		0.000	8.526	21.570
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.192	86.771%	16.220
%RSD		7.993	1.279	0.179
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.031	^M 584.500	0.000
%RSD		2.005	^M 0.924	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		106.813%	0.856	0.490
%RSD		0.780	3.630	2.043
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		69.170	0.000	
%RSD		1.236	0.000	

240-12701 -e-1-a, 6/30/2012 00:43:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		60.637%	3.337	53.010
%RSD		11.910	4.209	4.002
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1849.000	M 144600.000	TM 56270.000
%RSD		1.585	M 1.312	TM 0.531
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	± 8732.000	TM 246100.000
%RSD		±0.000	±0.658	TM 0.857
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±84.039%	83.913%	M 3945.000
%RSD		±1.335	0.604	M 0.669
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 258.800	147.500	5.907
%RSD		M 0.288	0.723	22.600
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3749.000	TM 149100.000	53.950
%RSD		TM 1.266	TM 0.597	0.905
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		132.600	140.200	M 295.700
%RSD		0.961	0.679	M 0.773
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		80.149%	33.740	0.859
%RSD		1.422	2.318	7.712
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.935	M 211.100	2.895
%RSD		3.943	M 1.165	3.297
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.386	-144.400
%RSD		0.000	1.344	11.560
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.440	78.983%	15.800
%RSD		11.570	1.133	1.977
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.882	M 480.500	0.000
%RSD		6.445	M 0.429	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.271%	0.949	0.628
%RSD		0.741	3.123	0.423
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		54.160	0.000	
%RSD		0.215	0.000	

SD 240-12701 -e-1-a@5, 6/30/2012 00:49:20 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.768%	0.683	12.320
%RSD		11.789	5.923	8.225
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		376.900	30700.000	M 12740.000
%RSD		1.595	0.840	M 1.671
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 1805.000	54620.000
%RSD		T 0.000	T 1.772	1.142
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 91.488%	91.347%	M 819.200
%RSD		T 0.855	0.480	M 2.487
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		53.660	30.750	-2.179
%RSD		1.814	0.749	38.450
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 801.400	T 31160.000	11.340
%RSD		T 1.094	T 0.888	1.278
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		28.370	30.510	68.900
%RSD		2.910	0.605	1.425
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.887%	7.488	0.266
%RSD		0.944	5.123	28.970
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.672	41.390	0.401
%RSD		19.010	0.868	9.880
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.074	-33.280
%RSD		0.000	26.150	36.690
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.312	85.250%	3.203
%RSD		14.720	0.516	2.929
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.158	100.300	0.000
%RSD		2.711	1.112	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.706%	-0.017	-0.091
%RSD		0.349	125.100	6.279
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		12.410	0.000	
%RSD		0.363	0.000	

240-12701 -e-1-a@5, 6/30/2012 00:55:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.704%	0.729	11.680
%RSD		12.591	4.672	7.310
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		359.300	30080.000	M 12420.000
%RSD		0.269	0.498	M 1.096
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 1788.000	54250.000
%RSD		T 0.000	T 1.050	0.869
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 92.243%	91.311%	M 807.900
%RSD		T 0.820	1.227	M 0.884
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		53.030	30.430	-1.703
%RSD		2.387	0.973	82.740
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 796.300	T 30960.000	11.590
%RSD		T 0.393	T 0.845	0.378
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		28.920	31.050	67.460
%RSD		1.511	0.932	1.597
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.263%	7.659	0.262
%RSD		0.786	2.990	27.570
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.718	41.650	0.311
%RSD		15.850	0.927	16.160
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.066	-27.850
%RSD		0.000	19.270	18.430
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.281	84.793%	3.314
%RSD		31.710	0.587	4.310
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.157	100.700	0.000
%RSD		16.470	1.480	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.674%	-0.012	-0.096
%RSD		0.981	295.500	2.957
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		12.240	0.000	
%RSD		1.034	0.000	

CCV 6/30/2012 01:00:43 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		68.567%	109.735%	105.888%
%RSD		12.027	2.073	5.096
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		102.473%	111.339%	109.396%
%RSD		1.406	1.466	0.614
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	104.260%	98.161%
%RSD		0.000	0.423	0.724
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		91.630%	89.244%	107.714%
%RSD		1.685	1.612	2.228
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		101.266%	99.767%	5.993
%RSD		0.534	1.345	11.230
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		99.836%	106.192%	99.726%
%RSD		0.779	1.204	2.059
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		103.241%	103.154%	100.540%
%RSD		0.918	0.070	1.069
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.337%	103.014%	-0.600
%RSD		0.693	0.919	8.648
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.574%	99.633%	106.616%
%RSD		1.592	0.173	0.065
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	108.519%	-6.453
%RSD		0.000	1.059	1183.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		108.240%	83.390%	107.042%
%RSD		1.114	0.648	0.494
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		108.983%	105.796%	0.000
%RSD		0.962	1.556	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		87.580%	102.104%	93.363%
%RSD		0.339	0.632	0.381
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		107.666%	0.000	
%RSD		0.198	0.000	

CCB 6/30/2012 01:06:43 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.673%	0.092	1.527
%RSD		12.492	6.587	22.100
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		29.190	47.890	8.533
%RSD		2.150	7.890	4.388
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	39.590	90.480
%RSD		± 0.000	4.524	6.550
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 92.525%	89.089%	0.575
%RSD		± 1.108	0.566	32.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.081	-0.164	-2.349
%RSD		310.200	45.130	39.140
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		5.755	78.600	0.080
%RSD		0.737	2.480	8.768
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.158	0.087	1.656
%RSD		48.600	66.360	8.075
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		88.866%	0.184	-0.012
%RSD		1.187	10.890	223.100
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.074	0.114	0.281
%RSD		112.000	16.020	25.820
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.056	-1.353
%RSD		0.000	36.620	71.830
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.097	83.677%	0.046
%RSD		25.890	0.732	34.570
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.120	0.205	0.000
%RSD		9.315	7.088	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.729%	0.255	0.080
%RSD		0.555	21.220	28.190
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.168	0.000	
%RSD		3.848	0.000	

SD 240-12701 -e-1-a@25, 6/30/2012 01:12:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		77.975%	0.134	3.244
%RSD		12.448	17.240	14.960
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		63.040	6290.000	M 2593.000
%RSD		2.666	0.357	M 1.547
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	391.900	11110.000
%RSD		± 0.000	0.845	0.781
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 90.072%	89.202%	162.200
%RSD		± 1.350	0.133	3.754
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		10.480	5.894	-2.654
%RSD		2.378	2.525	8.319
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		± 167.700	± 6273.000	2.362
%RSD		± 3.986	± 1.625	1.393
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.807	6.321	15.340
%RSD		2.233	2.226	2.534
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.259%	1.586	-0.005
%RSD		0.850	5.440	1908.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.029	8.509	-0.073
%RSD		124.600	1.641	28.420
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.003	-10.200
%RSD		0.000	165.100	34.310
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.029	83.773%	0.732
%RSD		93.330	0.277	5.128
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.014	20.120	0.000
%RSD		44.580	1.867	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.751%	-0.082	-0.140
%RSD		0.348	27.060	10.520
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		2.596	0.000	
%RSD		1.754	0.000	

CCV 6/30/2012 01:18:13 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		68.535%	107.696%	103.450%
%RSD		12.191	3.101	5.992
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		102.353%	110.285%	107.612%
%RSD		0.854	1.434	0.552
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	103.439%	98.539%
%RSD		0.000	1.659	0.856
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		84.520%	86.721%	106.634%
%RSD		0.873	0.473	1.746
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		100.742%	98.907%	5.751
%RSD		0.156	1.024	26.750
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		100.238%	105.610%	98.847%
%RSD		1.028	0.188	0.303
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.680%	103.410%	100.416%
%RSD		0.883	1.152	1.580
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.907%	102.930%	-0.902
%RSD		1.378	1.260	8.143
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.261%	99.300%	107.973%
%RSD		1.560	1.527	0.639
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	107.829%	-15.570
%RSD		0.000	0.665	139.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		106.693%	80.496%	107.190%
%RSD		0.834	0.902	1.753
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		109.158%	106.732%	0.000
%RSD		1.431	1.443	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.028%	103.058%	93.646%
%RSD		1.254	0.342	0.396
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		107.940%	0.000	
%RSD		0.418	0.000	

CCB 6/30/2012 01:24:16 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		79.586%	0.090	1.208
%RSD		13.479	19.450	40.180
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		34.320	60.380	11.190
%RSD		5.853	7.255	4.572
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	44.400	102.900
%RSD		±0.000	5.381	1.587
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±89.387%	85.782%	0.658
%RSD		±0.106	0.498	44.790
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.195	-0.149	-3.623
%RSD		63.330	33.680	10.040
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		5.809	86.450	0.090
%RSD		1.495	0.639	14.440
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.087	0.110	1.571
%RSD		19.440	28.980	15.720
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.428%	0.173	-0.024
%RSD		1.565	46.650	10.300
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.051	0.110	0.237
%RSD		232.500	24.870	48.100
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.077	0.953
%RSD		0.000	22.590	210.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.095	81.784%	0.043
%RSD		15.570	0.759	37.410
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.122	0.237	0.000
%RSD		42.170	27.790	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.733%	0.249	0.143
%RSD		0.472	26.290	19.830
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.162	0.000	
%RSD		6.011	0.000	

TestAmerica ICP/MS Data Review Checklist

Run Date: 7/6/12 Analyst: BCL Instrument: I8

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution ≤ 0.9 AMU full width at 10% peak height, and within ± 0.1 AMU of true mass?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
2. Performance check within recommended specifications? (Be > 8000 cps) (In > 300,000 cps) (Pb > 100,000 cps) (Co > 100,000) (Mg > 100,000) (CeO/Ce < 0.03) (Ba++/Ba < 0.03) (Background < 30 cps @ Mass 220) CCT Performance Check (In > 75000) (Se < 20 cps)	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels? Correlation coefficient ≥ 0.995 ?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
1. ICV/CCV analyzed at appropriate frequency and within control limits? (ICV: = 90 - 110%) (CCV: 90 - 110%, 200.8 = 85 - 115%)	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
2. ICB/CCB analyzed at appropriate frequency and within \pm RL?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
3. CRI run and recovered within QC limits ($\pm 50\%$) or project limits?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
4. ICSA/ICSAB run at required frequency and within SOP control limits?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
2. All reported results bracketed by in control QC?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
3. Were the internal standards within acceptance criteria for all results reported?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
4. Sample analyses done within holding time?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
2. Method blank done per prep batch and < RL?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
3. MS run at required frequency and within limits?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
4. MSD or DU run at required frequency and RPD within SOP limits?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
5. Serial dilution done per prep batch?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
6. Post digest spike analyzed if required?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
E. Other				
1. Are all nonconformance's documented appropriately?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
2. Current IDL/LR data on file?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
3. Calculations checked for error?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
4. Transcriptions checked for error?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
5. All client/project specific requirements met?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
6. Date/time of analysis verified as correct?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

Level I Analyst: BCL Date: 7/9/12 Time: 8:21 - 21:03
 Level I Analyst: _____ Date: _____ Time: _____
 Level II Reviewer: Natali J. Manahan Date: 7-9-12 Time: 08:21 - 21:03
 Level II Reviewer: _____ Date: _____ Time: _____

Comments: Be, B use SC as Int Std

Performance Report

Sample details

Acquired at : 7/6/2012 07:00:08

Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Mass Calibration verification

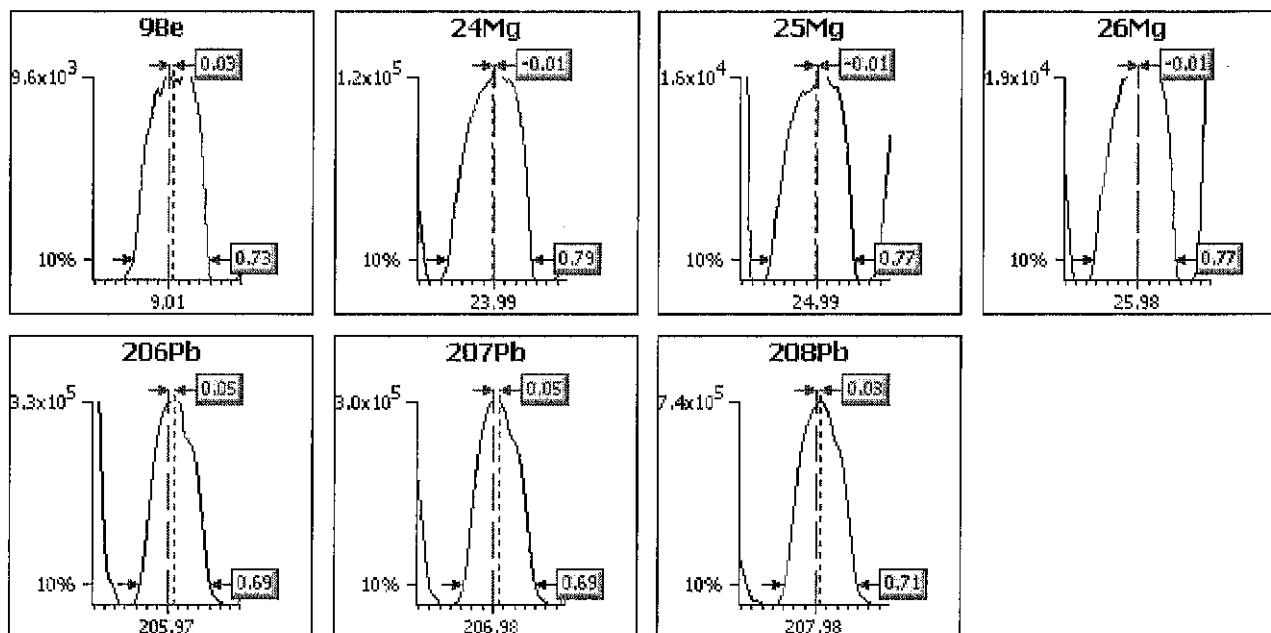
Acquisition parameters

Sweeps : 10

Dwell : 5.0 mSecs

Point spacing : 0.02 amu

Peak width measured at 10% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.73	0.03
24Mg	0.85	0.65	0.10	0.79	-0.01
25Mg	0.85	0.65	0.10	0.77	-0.01
26Mg	0.85	0.65	0.10	0.77	-0.01
206Pb	0.85	0.65	0.10	0.69	0.05
207Pb	0.85	0.65	0.10	0.69	0.05
208Pb	0.85	0.65	0.10	0.71	0.03

Sample details

Acquired at : 7/6/2012 07:00:08

Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-105.9	Lens 3	-195.3	Standard resolution	125	He_H2	0.00
Lens 1	-1169	Forward power	1349	High resolution	125	He-Not In Use	0.00
Lens 2	-80.0	Horizontal	50	Analogue Detector	2100		
Focus	11.4	Vertical	543	PC Detector	3430		
D1	-41.6	DA	-46.3				
D2	-140	Cool	13.0				
Pole Bias	-2.0	Auxiliary	0.90				
Hexapole Bias	-6.5	Sampling Depth	150				
Nebuliser	0.77						

Sensitivity and stability results**Acquisition parameters**

Sweeps : 30

Run	Time	58kg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
%RSD		-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
Limits	CountRate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	07:00:42	0.000	10640.062	125755.99	17175.512	19928.574	202192.39	783.352	0.333	749700.64
2	07:01:00	0.000	10339.873	120114.60	16494.825	19414.635	193985.72	843.355	0.000	739464.90
3	07:01:18	0.000	10536.663	119043.63	16454.785	19140.985	194808.56	793.352	0.333	738980.79
4	07:01:36	0.000	10153.092	116650.13	15917.597	19127.636	194832.17	798.908	0.000	736414.19
5	07:01:54	0.000	10043.025	116797.82	16394.726	19191.043	193318.02	815.576	0.667	729611.24
X		0.000	10342.543	119672.43	16487.489	19360.574	195827.37	806.908	0.267	738834.35
σ		0.00	250.90	3708.04	449.41	337.92	3613.53	23.48	0.28	7235.65
%RSD		0.000	2.426	3.098	2.726	1.745	1.845	2.910	104.583	0.979

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
%RSD		-	-	-	-	-	5.0%	-
Limits	CountRate	-	-	-	>100000	>100000	>100000	<30
1	07:00:42	93695.963	789989.04	14773.211	338938.35	308016.84	737333.52	0.000
2	07:01:00	90980.984	779708.14	14610.846	332762.42	304662.69	723437.33	0.000
3	07:01:18	90035.872	773784.78	14328.379	335431.81	305460.43	730377.05	1.000
4	07:01:36	90347.552	768882.19	14796.565	330368.84	302432.63	729089.12	0.000
5	07:01:54	91027.905	767786.72	14170.466	331810.39	301448.37	730603.31	0.000
X		91217.655	776030.17	14535.893	333862.36	304404.19	730168.07	0.200
σ		1448.08	9116.84	276.81	3385.78	2591.22	4950.85	0.45
%RSD		1.587	1.175	1.904	1.014	0.851	0.678	223.607

Ratio results

Run	Time	137Ba++ / 137Ba	156Ce O / 140Ce
Ratio limits		<0.0300	<0.0300
1	07:00:42	0.008	0.019
2	07:01:00	0.009	0.019
3	07:01:18	0.009	0.019
4	07:01:36	0.009	0.019
5	07:01:54	0.009	0.018
X		0.0088	0.0187
σ		0.00	0.00
%RSD		3.7015	1.6575

Result : The performance report passed.

Performance Report

Sample details

Acquired at : 7/6/2012 07:03:40

Report name : CCT MODE PERF REPORT [5/20/2011 11:37:05]

Tune conditions

Major	
Extraction	-137.3
Lens 1	-1169
Lens 2	-80.0
Focus	-4.9
D1	-51.0
D2	-135
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.78

Minor	
Lens 3	-195.3
Forward power	1349
Horizontal	50
Vertical	543
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	125
High resolution	125
Analogue Detector	2100
PC Detector	3430

Add. Gases	
He_H2	3.80
He-Not In Use	0.00

Sensitivity and stability results

Acquisition parameters

Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		100.0	10.0
%RSD			5.0%
Limits	CountRate	<20	>75000
1	07:03:41	3.000	152888.04
2	07:03:46	4.667	153419.56
3	07:03:51	3.667	154936.83
4	07:03:56	5.667	155084.86
5	07:04:01	3.000	156114.41
x		4.000	154488.74
y		1.15	1313.81
%RSD		28.868	0.850

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA 6020-200.8_MULTIMODE.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	7/6/2012 08:19:44
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

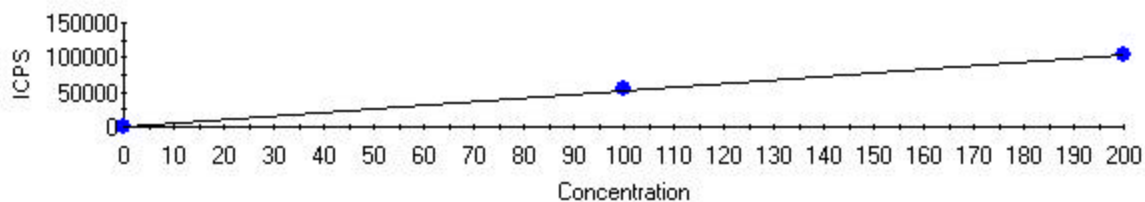
Blue text indicates that cell is a statistic.

Underlining indicates that a data warning flag is set.

Column headings	Result cells	Data warning flags
No flag	Internal Standard	I - Invalid calibration
Semi Quant	Excluded	T - Tripped
Standard Addition	QC Warning	F - Interference correction failed
Multi Element	QC Failure	M - Result over max
	Transient TRA only:	V - Valley integration failed
	Peak Not Found	D - Different method used
	Manually Edited	
	Merged Peak	

Fully Quant Calibration

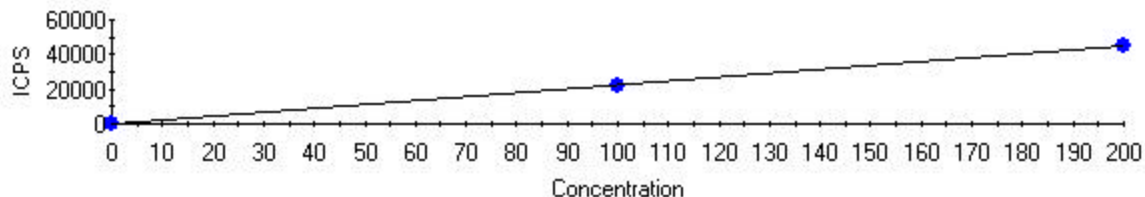
98e FQ Block 1



Intercept CPS=14.892086 Intercept Conc=0.028345
Sensitivity=525.392713 Correlation Coeff=0.998787

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	14.89	0.00
STD2	100.000	106.717	6.717	56083.02	6.72
STD3	200.000	196.642	3.358	103329.01	1.68

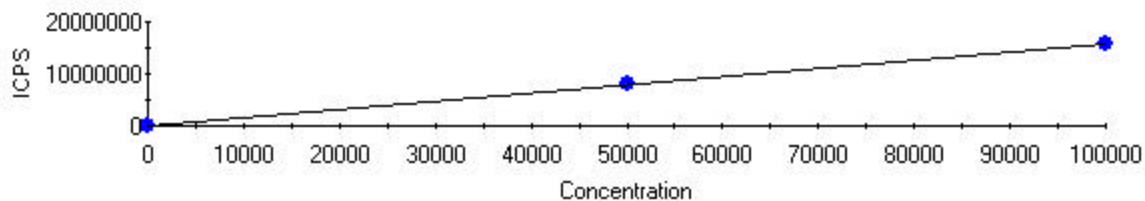
10B FQ Block 1



Intercept CPS=493.717623 Intercept Conc=2.233038
Sensitivity=221.096824 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	493.72	0.00
STD2	100.000	99.214	0.786	22429.61	0.79
STD4	200.000	200.393	0.393	44799.98	0.20

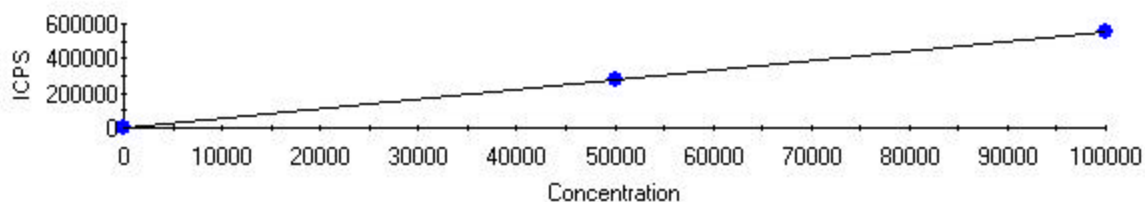
23Na FQ Block 1



Intercept CPS=3790.831005 Intercept Conc=24.070331
Sensitivity=157.489777 Correlation Coeff=0.999979

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	3790.83	0.00
STD2	50000.000	50450.381	450.381	7949210.12	0.90
STD3	100000.000	99774.809	225.191	15171303.26	0.23

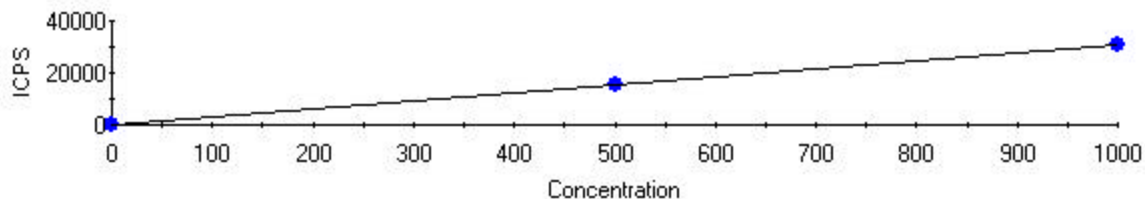
25Mg FQ Block 1



Intercept CPS=13.354240 Intercept Conc=2.403600
Sensitivity=5.555933 Correlation Coeff=0.999976

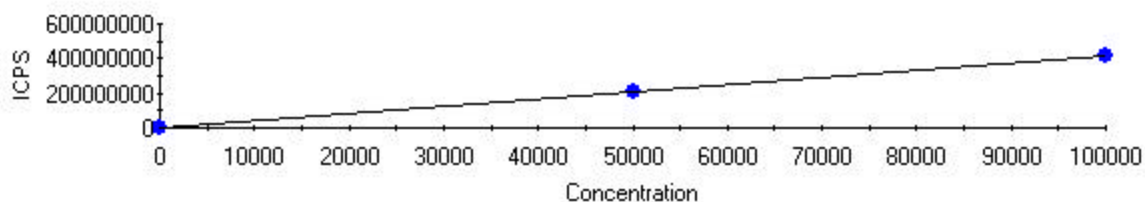
Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	13.35	0.00
STD2	50000.000	50481.132	481.132	280483.12	0.96
STD3	100000.000	99759.434	240.566	554270.04	0.24

27Al FQ Block 1



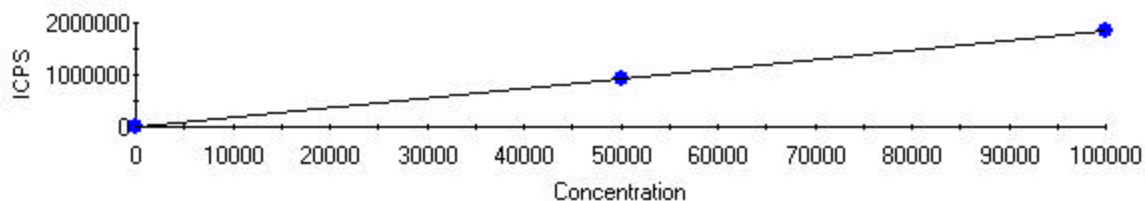
Intercept CPS=58.928628 Intercept Conc=1.910250
Sensitivity=30.848647 Correlation Coeff=0.999911

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	58.93	0.00
STD2	500.000	490.737	9.263	15197.50	1.85
STD3	1000.000	1004.632	4.632	31050.45	0.46

39K FQ Block 1

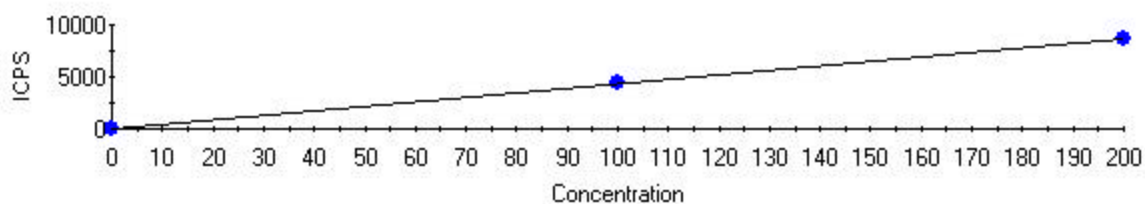
Intercept CPS=172506.780719 Intercept Conc=41.981527
Sensitivity=4109.111606 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	172506.78	0.00
STD2	50000.000	50080.368	80.368	205958327.58	0.16
STD3	100000.000	99959.816	40.184	410918547.14	0.04

43Ca FQ Block 1

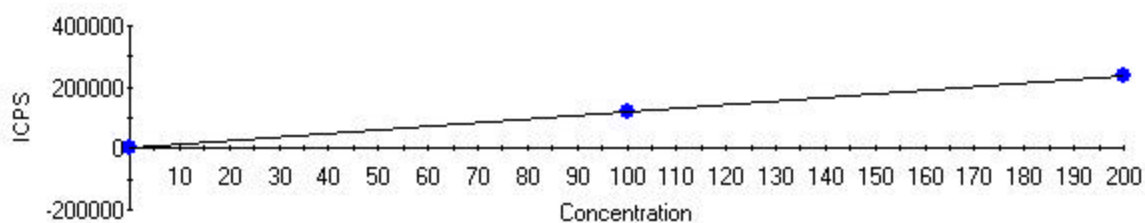
Intercept CPS=1190.915710 Intercept Conc=65.086650
Sensitivity=18.297388 Correlation Coeff=0.999974

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	1190.92	0.00
STD2	50000.000	49497.002	502.998	906856.79	1.01
STD3	100000.000	100251.499	251.499	1835531.54	0.25

47Ti FQ Block 1

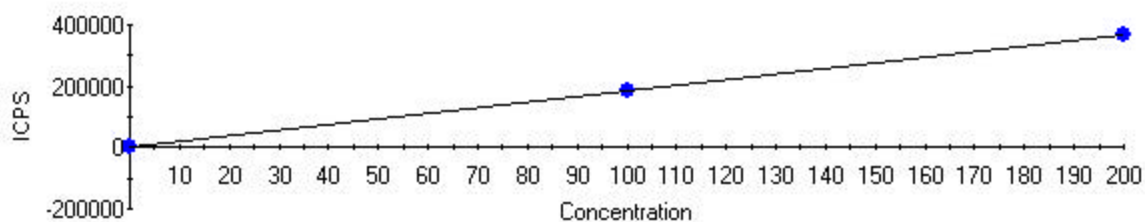
Intercept CPS=3.333209 Intercept Conc=0.076612
Sensitivity=43.507462 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	3.33	0.00
STD2	100.000	100.453	0.453	4373.78	0.45
STD4	200.000	199.774	0.226	8694.97	0.11

51V FQ Block 1

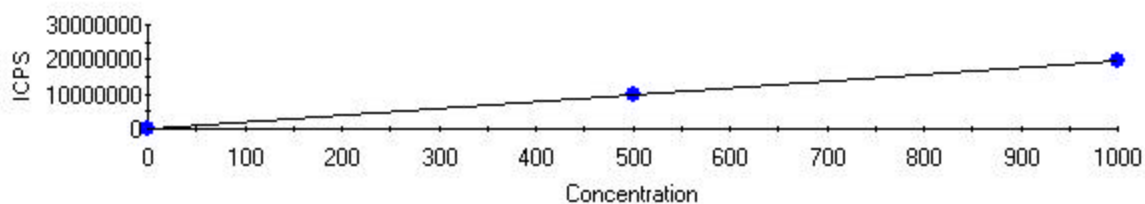
Intercept CPS=-394.299988 Intercept Conc=-0.330158
Sensitivity=1194.277246 Correlation Coeff=0.999922

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	-394.30	0.00
STD2	100.000	98.267	1.733	116963.68	1.73
STD3	200.000	200.867	0.867	239496.02	0.43

52Cr FQ Block 1

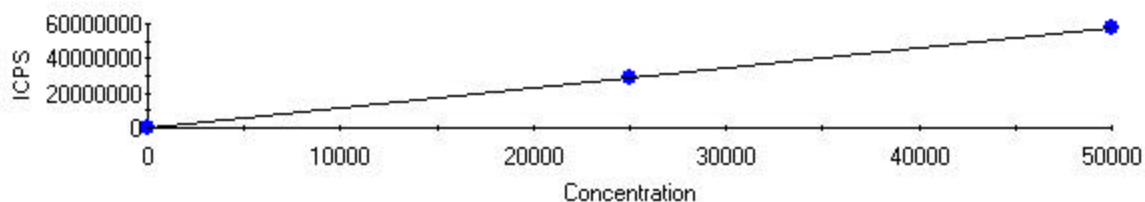
Intercept CPS=-472.229478 Intercept Conc=-0.255694
Sensitivity=1846.857556 Correlation Coeff=0.999992

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	-472.23	0.00
STD2	100.000	99.454	0.546	183204.74	0.55
STD3	200.000	200.273	0.273	369403.67	0.14

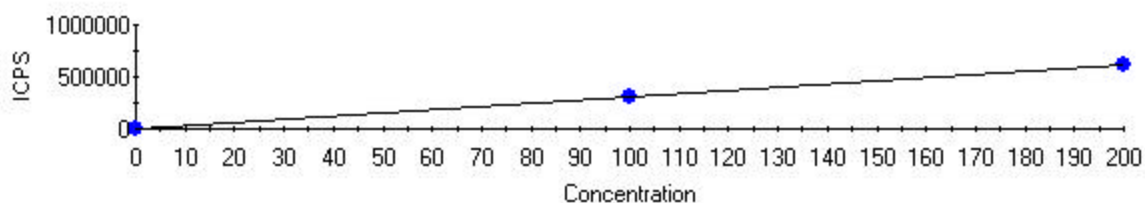
55Mn FQ Block 1

Intercept CPS=3732.613558 Intercept Conc=0.189767
Sensitivity=19669.410748 Correlation Coeff=0.999885

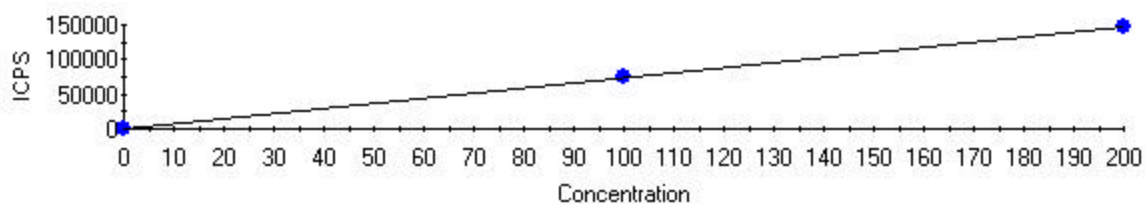
Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	3732.61	0.00
STD2	500.000	489.422	10.578	9630375.35	2.12
STD3	1000.000	1005.289	5.289	19777174.68	0.53

⁵⁶Fe FQ Block 1

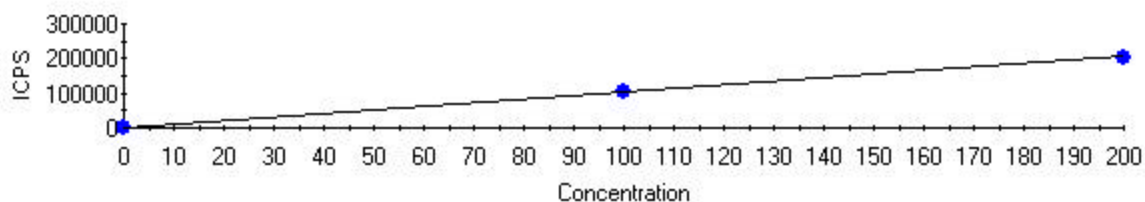
Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	2078.59	0.00
STD2	25000.000	24888.258	111.742	28506328.13	0.45
STD3	50000.000	50055.871	55.871	57330519.89	0.11

⁵⁹Co FQ Block 1

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	8.89	0.00
STD2	100.000	100.259	0.259	308226.89	0.26
STD3	200.000	199.871	0.129	614456.95	0.06

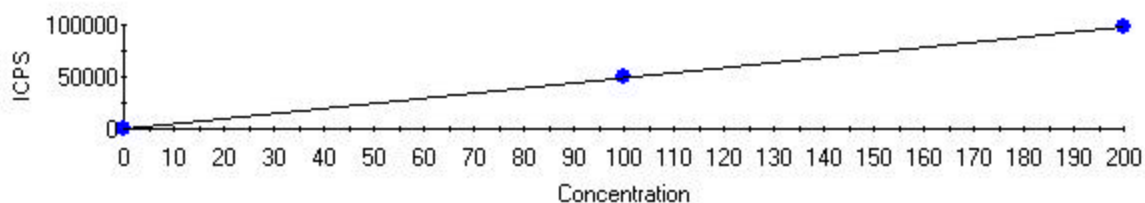
⁶⁰Ni FQ Block 1

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	59.98	0.00
STD2	100.000	101.410	1.410	74862.26	1.41
STD3	200.000	199.295	0.705	147064.45	0.35

65Cu FQ Block 1

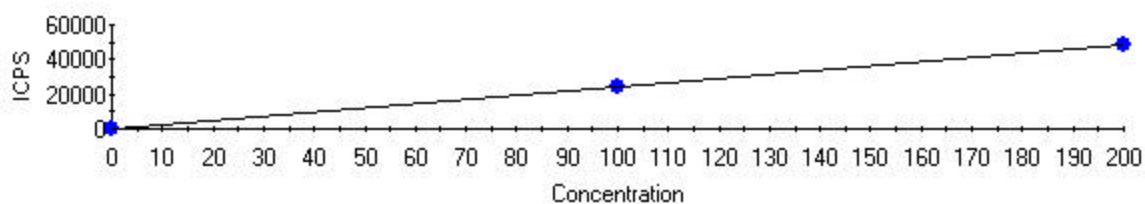
Intercept CPS=147.770947 Intercept Conc=0.143909
Sensitivity=1026.834225 Correlation Coeff=0.999882

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	147.77	0.00
STD2	100.000	102.118	2.118	105006.21	2.12
STD3	200.000	198.941	1.059	204427.11	0.53

66Zn FQ Block 1

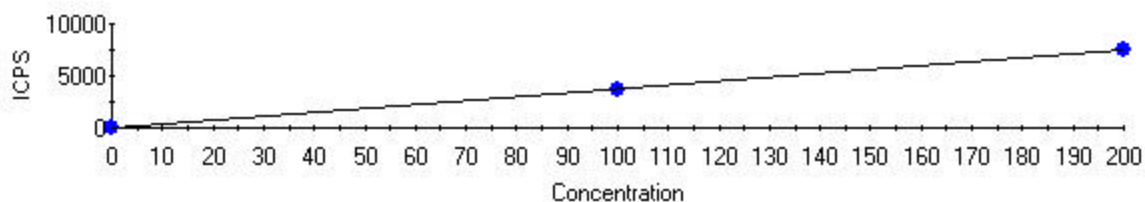
Intercept CPS=744.535374 Intercept Conc=1.520092
Sensitivity=489.796172 Correlation Coeff=0.999961

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	744.54	0.00
STD2	100.000	101.223	1.223	50323.40	1.22
STD3	200.000	199.388	0.612	98404.15	0.31

75As FQ Block 1

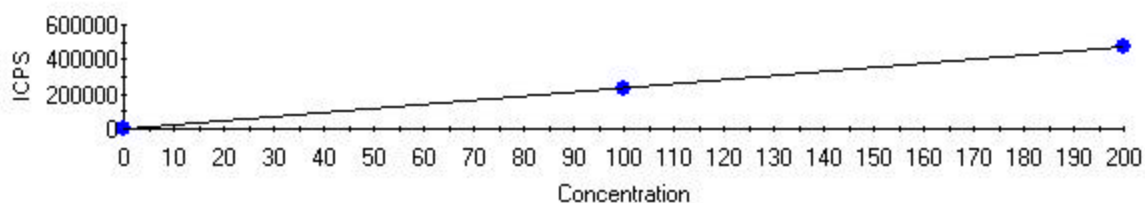
Intercept CPS=277.841973 Intercept Conc=1.156341
Sensitivity=240.276840 Correlation Coeff=0.999968

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	277.84	0.00
STD2	100.000	98.888	1.112	24038.25	1.11
STD3	200.000	200.556	0.556	48466.85	0.28

78Se FQ Block 1

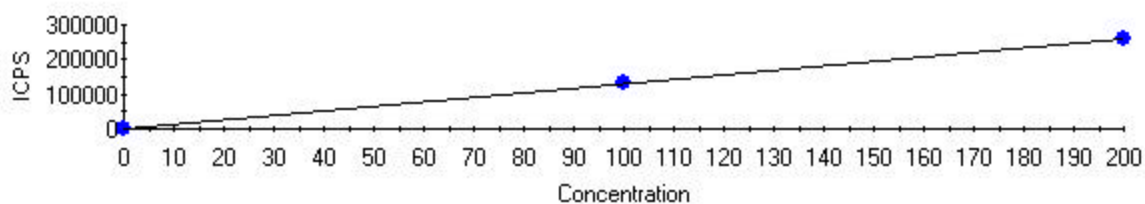
Intercept CPS=3.848250 Intercept Conc=0.102987
Sensitivity=37.366503 Correlation Coeff=0.999937

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	3.85	0.00
STD2	100.000	98.441	1.559	3682.23	1.56
STD3	200.000	200.780	0.780	7506.28	0.39

88Sr FQ Block 1

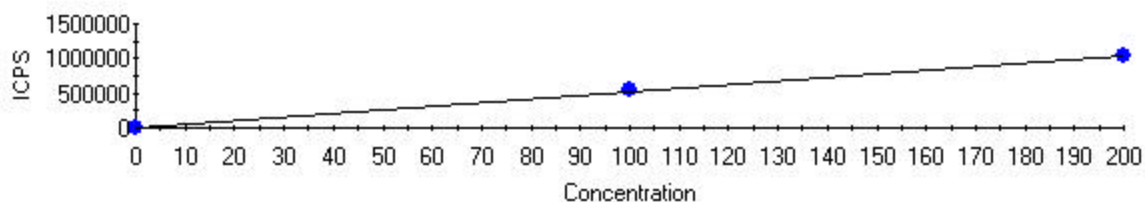
Intercept CPS=92.218345 Intercept Conc=0.039392
Sensitivity=2341.023429 Correlation Coeff=0.999651

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	92.22	0.00
STD2	100.000	96.305	3.695	225544.38	3.70
STD3	200.000	201.848	1.848	472621.99	0.92

95Mo FQ Block 1

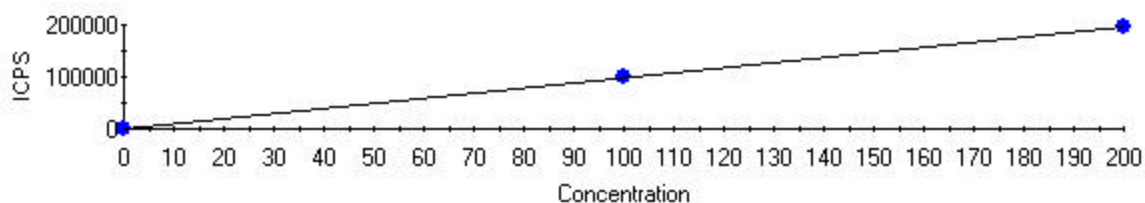
Intercept CPS=719.167140 Intercept Conc=0.550013
Sensitivity=1307.546145 Correlation Coeff=0.999828

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	719.17	0.00
STD2	100.000	102.557	2.557	134817.39	2.56
STD4	200.000	198.721	1.279	260556.59	0.64

107Ag FQ Block 1

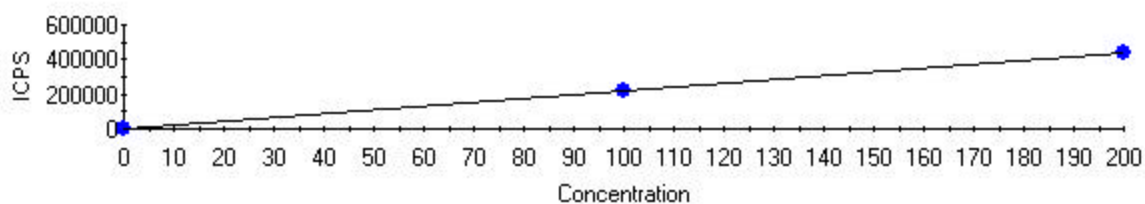
Intercept CPS=27.727546 Intercept Conc=0.005271
Sensitivity=5260.496198 Correlation Coeff=0.999844

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	27.73	0.00
STD2	100.000	102.433	2.433	538877.77	2.43
STD3	200.000	198.783	1.217	1045726.75	0.61

111Cd FQ Block 1

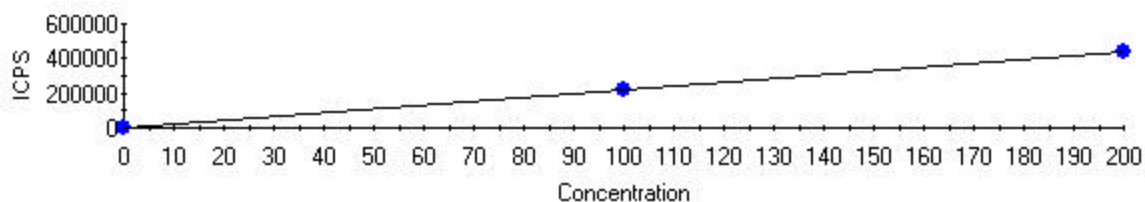
Intercept CPS=3.863627 Intercept Conc=0.003942
Sensitivity=980.077494 Correlation Coeff=0.999967

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	3.86	0.00
STD2	100.000	101.124	1.124	99113.41	1.12
STD3	200.000	199.438	0.562	195468.46	0.28

118Sn FQ Block 1

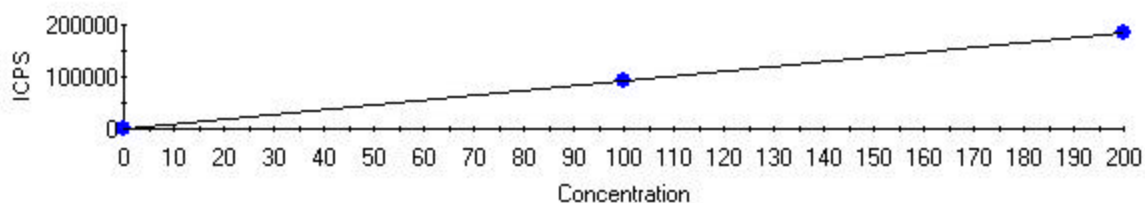
Intercept CPS=502.532825 Intercept Conc=0.227080
Sensitivity=2213.020113 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	502.53	0.00
STD2	100.000	99.898	0.102	221579.36	0.10
STD4	200.000	200.051	0.051	443219.15	0.03

121Sb FQ Block 1

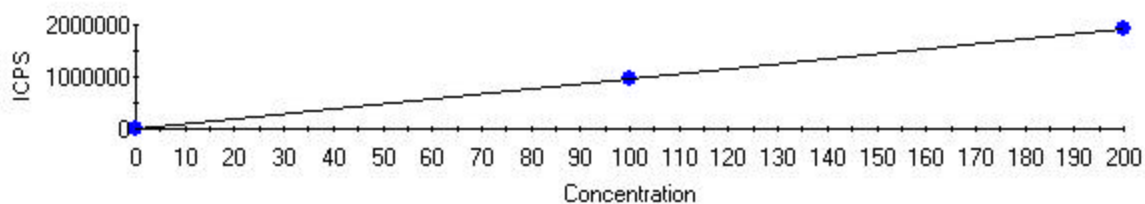
Intercept CPS=95.494123 Intercept Conc=0.043743
Sensitivity=2183.076830 Correlation Coeff=0.999982

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	95.49	0.00
STD2	100.000	100.840	0.840	220237.52	0.84
STD4	200.000	199.580	0.420	435793.69	0.21

137Ba FQ Block 1

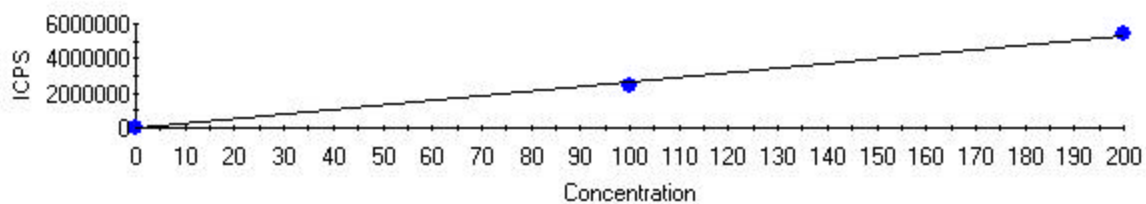
Intercept CPS=166.680391 Intercept Conc=0.180779
Sensitivity=922.012169 Correlation Coeff=0.999892

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	166.68	0.00
STD2	100.000	97.950	2.050	90478.14	2.05
STD3	200.000	201.025	1.025	185513.99	0.51

182W FQ Block 1

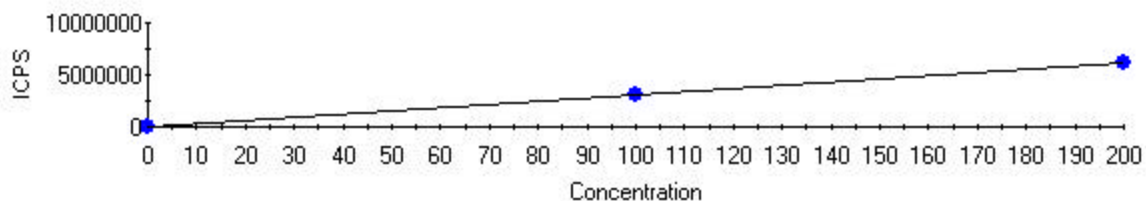
Intercept CPS=2804.639508 Intercept Conc=0.289921
Sensitivity=9673.800880 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	2804.64	0.00
STD2	100.000	99.789	0.211	968144.24	0.21
STD4	200.000	200.105	0.105	1938585.06	0.05

205Tl FQ Block 1

Intercept CPS=3753.250037 Intercept Conc=0.141061
Sensitivity=26607.274764 Correlation Coeff=0.998593

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	0.000	0.000	3753.25	0.00
STD2	100.000	92.503	7.497	2465003.90	7.50
STD3	200.000	203.749	3.749	5424946.62	1.87

208Pb FQ Block 1

Intercept CPS=1279.370882 Intercept Conc=0.042137
Sensitivity=30362.448354 Correlation Coeff=0.999965

Label	Defined	Measured	Error	Mean CPS	% Error
ICISM=6020	0.000	-0.000	0.000	1279.37	0.00
STD2	100.000	98.843	1.157	3002402.53	1.16
STD3	200.000	200.578	0.578	6091329.88	0.29

Dilution Corrected Concentrations

ICISM=6020 7/6/2012 08:21:41

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		100.000%	0.000	-0.000
%RSD		28.861	0.000	0.000
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		100.000%	100.000%	-0.000
%RSD		13.845	0.360	0.000
Run	Time	51V	52Cr	53Cr
		ppb	ppb	ppb
X		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.000	0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	72Ge	75As	77As
		ppb	ppb	ppb
X		100.000%	0.000	0.000
%RSD		0.985	0.000	0.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	105Pd	107Ag	108Ag
		ppb	ppb	ppb
X		0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.000	100.000%	-0.000
%RSD		0.000	1.164	0.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.000%	-0.000	0.000
%RSD		1.369	0.000	0.000
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		-0.000	0.000	
%RSD		0.000	0.000	

STD2 7/6/2012 08:27:24

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		80.065%	106.700	99.210
%RSD		35.423	5.387	1.398
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>±50450.000</u>	50480.000	490.700
%RSD		<u>±1.888</u>	1.464	1.998
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>±0.000</u>	<u>±50080.000</u>	49500.000
%RSD		<u>±0.000</u>	<u>±1.640</u>	0.555
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>±94.827%</u>	118.645%	100.500
%RSD		<u>±18.060</u>	3.375	1.369
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		98.270	99.450	12.920
%RSD		0.361	0.461	24.170
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>±489.400</u>	<u>±24890.000</u>	100.300
%RSD		<u>±2.026</u>	<u>±0.842</u>	0.602
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		101.400	102.100	101.200
%RSD		1.850	0.691	1.235
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		113.047%	98.890	-0.420
%RSD		1.603	1.154	30.800
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.440	96.300	102.600
%RSD		1.992	0.864	0.926
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	102.400	58.890
%RSD		0.000	0.794	57.640
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		101.100	111.510%	99.900
%RSD		0.761	2.724	0.116
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		100.800	97.950	0.000
%RSD		0.481	1.050	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		110.818%	99.790	92.500
%RSD		1.858	0.173	0.544
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		98.840	0.000	
%RSD		0.166	0.000	

STD3 7/6/2012 08:32:30

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		64.340%	M 196.600	-0.244
%RSD		39.862	M 8.478	34.140
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 99770.000	M 99760.000	M 1005.000
%RSD		TM 0.830	M 0.551	M 0.340
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	TM 99960.000	M 100300.000
%RSD		T 0.000	TM 3.054	M 0.866
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 87.811%	123.057%	0.257
%RSD		T 20.534	2.300	36.590
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 200.900	M 200.300	27.180
%RSD		M 0.618	M 0.386	3.096
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1005.000	TM 50060.000	M 199.900
%RSD		TM 3.605	TM 0.155	M 0.697
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 199.300	M 198.900	M 199.400
%RSD		M 0.763	M 0.750	M 1.620
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		113.380%	M 200.600	-1.217
%RSD		2.233	M 0.625	17.250
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 200.800	M 201.800	0.444
%RSD		M 1.014	M 0.230	33.490
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	198.800	38.510
%RSD		0.000	0.555	185.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 199.400	114.481%	0.178
%RSD		M 0.561	2.099	8.698
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.150	M 201.000	0.000
%RSD		1.679	M 1.002	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		112.993%	0.506	TM 203.700
%RSD		2.050	11.990	TM 0.560
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 200.600	0.000	
%RSD		TM 0.678	0.000	

STD4 7/6/2012 08:38:41

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		100.650%	0.132	M 200.400
%RSD		28.122	6.278	M 3.430
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		62.900	52.930	11.880
%RSD		5.790	7.712	9.293
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	37.790	33.630
%RSD		±0.000	9.141	16.250
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±100.940%	101.928%	M 199.800
%RSD		±13.912	0.784	M 1.931
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.194	0.131	-0.907
%RSD		31.980	12.810	22.310
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1.274	40.930	0.139
%RSD		3.329	2.440	7.273
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.205	0.313	0.452
%RSD		32.520	6.821	31.690
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.519%	0.167	-0.367
%RSD		1.316	46.030	4.634
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.341	0.540	M 198.700
%RSD		19.880	8.273	M 0.600
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.087	13.960
%RSD		0.000	13.380	39.440
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.001	102.677%	M 200.100
%RSD		3464.000	0.851	M 0.828
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		M 199.600	0.235	0.000
%RSD		M 0.590	23.580	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.639%	M 200.100	0.500
%RSD		0.796	M 0.691	6.618
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.200	0.000	
%RSD		1.185	0.000	

ICV 7/6/2012 08:44:23 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		85.515%	109.653%	101.181%
%RSD		31.847	4.122	2.444
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>103.807%</u>	103.229%	104.050%
%RSD		<u>1.100</u>	1.197	0.753
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>0.000</u>	<u>102.356%</u>	100.498%
%RSD		<u>0.000</u>	<u>1.811</u>	0.963
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>96.339%</u>	112.796%	103.746%
%RSD		<u>16.344</u>	2.028	1.367
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		101.852%	102.198%	8.693
%RSD		0.574	0.131	8.516
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>100.434%</u>	<u>101.840%</u>	101.650%
%RSD		<u>2.012</u>	<u>0.573</u>	0.697
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		103.840%	105.497%	107.179%
%RSD		0.310	0.603	2.174
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		108.384%	100.172%	-0.747
%RSD		1.426	1.177	25.320
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		102.404%	96.685%	104.249%
%RSD		2.089	1.045	0.215
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	104.157%	66.180
%RSD		0.000	0.406	52.710
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		101.430%	108.506%	101.430%
%RSD		0.147	1.782	0.488
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		104.536%	99.865%	0.000
%RSD		0.628	1.571	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		108.013%	99.820%	93.870%
%RSD		2.140	0.330	0.348
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		100.951%	0.000	
%RSD		0.560	0.000	

ICB 7/6/2012 08:50:12 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		107.216%	-0.006	0.515
%RSD		29.924	111.900	35.760
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1.753	1.060	-0.209
%RSD		74.680	142.300	150.600
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	2.679	0.540
%RSD		±0.000	104.200	989.700
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±102.966%	103.695%	0.071
%RSD		±14.721	0.846	102.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.132	-0.029	-0.990
%RSD		94.930	25.600	68.930
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.001	2.773	0.004
%RSD		168.900	21.900	70.540
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.014	0.028	-0.061
%RSD		78.290	166.700	247.500
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.805%	-0.025	-0.021
%RSD		0.885	84.120	92.850
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.015	0.013	0.145
%RSD		124.000	66.330	56.900
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.004	-0.533
%RSD		0.000	21.010	44.830
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.001	102.645%	0.049
%RSD		234.000	0.740	21.250
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.066	0.001	0.000
%RSD		7.164	1028.000	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.111%	0.512	0.283
%RSD		1.043	9.100	9.944
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.008	0.000	
%RSD		22.700	0.000	

CRI 7/6/2012 08:55:58 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		106.865%	113.006%	105.777%
%RSD		29.622	3.931	1.800
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		93.794%	106.070%	116.343%
%RSD		0.594	0.543	3.701
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±106.126%	97.732%
%RSD		±0.000	±0.971	1.738
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±103.438%	100.269%	98.924%
%RSD		±14.217	1.229	6.252
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		98.248%	106.558%	0.031
%RSD		1.467	3.007	1375.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		135.081%	130.033%	102.154%
%RSD		2.948	1.775	4.058
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		131.744%	112.173%	106.106%
%RSD		3.987	5.942	5.817
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		98.517%	98.447%	-0.034
%RSD		1.807	10.280	21.840
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		97.991%	94.214%	96.855%
%RSD		12.990	1.576	0.630
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	109.473%	0.213
%RSD		0.000	3.642	1545.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		103.021%	99.788%	97.428%
%RSD		5.521	0.902	0.846
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.566%	104.512%	0.000
%RSD		3.958	8.140	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		98.374%	97.112%	106.129%
%RSD		0.797	0.370	0.811
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		123.049%	0.000	
%RSD		0.347	0.000	

ICSA 7/6/2012 09:01:43 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.210%	0.033	-0.564
%RSD		37.065	51.010	12.340
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>152850.000</u>	52010.000	<u>M51460.000</u>
%RSD		<u>1.077</u>	1.120	<u>M1.305</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>151560.000</u>	51550.000
%RSD		<u>10.000</u>	<u>1.922</u>	1.023
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>188.379%</u>	108.675%	<u>M1051.000</u>
%RSD		<u>18.670</u>	3.198	<u>M0.752</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.269	0.584	-0.221
%RSD		58.130	9.858	245.900
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.444	<u>TM51290.000</u>	0.092
%RSD		7.037	<u>TM1.142</u>	18.650
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.551	0.791	1.685
%RSD		6.811	2.401	8.177
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		107.432%	0.141	-0.238
%RSD		3.356	75.680	21.700
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.065	0.301	<u>M1040.000</u>
%RSD		86.840	9.686	<u>M0.549</u>
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.049	77.310
%RSD		0.000	11.130	8.191
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.377	107.994%	0.187
%RSD		17.390	3.231	15.980
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.181	0.125	0.000
%RSD		11.900	9.261	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.811%	0.201	0.061
%RSD		2.532	0.911	7.773
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.185	0.000	
%RSD		2.014	0.000	

ICSAB 7/6/2012 09:07:27 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		66.154%	103.287%	96.894%
%RSD		36.446	5.531	1.709
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>103.658%</u>	102.110%	<u>M100.392%</u>
%RSD		<u>10.681</u>	0.129	<u>M0.907</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>103.074%</u>	102.697%
%RSD		<u>10.000</u>	<u>1.603</u>	0.358
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>184.931%</u>	118.989%	<u>M101.831%</u>
%RSD		<u>19.563</u>	2.990	<u>M0.693</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		100.166%	100.737%	14.030
%RSD		0.416	0.239	13.260
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		90.952%	<u>TM101.273%</u>	100.252%
%RSD		3.560	<u>TM0.844</u>	0.714
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		102.015%	100.513%	102.959%
%RSD		0.761	1.191	0.725
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		114.461%	98.590%	-0.743
%RSD		2.553	1.140	30.160
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.360%	94.269%	<u>M103.950%</u>
%RSD		2.428	0.909	<u>M0.633</u>
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	101.225%	115.400
%RSD		0.000	0.278	25.820
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		99.480%	113.911%	100.613%
%RSD		0.372	2.292	0.926
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		101.611%	101.175%	0.000
%RSD		0.286	0.414	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		108.871%	101.843%	97.286%
%RSD		2.795	0.625	0.249
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		103.552%	0.000	
%RSD		0.565	0.000	

CCV 7/6/2012 09:13:28 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		68.638%	103.634%	100.184%
%RSD		38.779	5.414	1.116
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>100.436%</u>	98.558%	98.747%
%RSD		<u>10.140</u>	0.930	2.111
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>101.257%</u>	100.518%
%RSD		<u>10.000</u>	<u>1.947</u>	0.827
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>90.672%</u>	129.418%	95.339%
%RSD		<u>20.627</u>	1.495	2.951
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		97.459%	98.733%	12.840
%RSD		0.674	0.368	8.788
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>100.482%</u>	<u>98.277%</u>	99.671%
%RSD		<u>3.047</u>	<u>10.717</u>	0.416
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		100.386%	101.705%	101.867%
%RSD		0.676	0.758	0.533
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		119.837%	98.305%	-0.352
%RSD		2.841	1.181	6.706
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.383%	96.538%	110.721%
%RSD		0.862	0.061	1.005
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	103.051%	72.300
%RSD		0.000	0.497	87.890
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		101.052%	117.316%	99.996%
%RSD		1.176	1.669	0.669
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		100.612%	99.155%	0.000
%RSD		0.199	1.178	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		115.257%	101.089%	92.806%
%RSD		1.917	0.731	0.246
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		98.421%	0.000	
%RSD		0.619	0.000	

CCB 7/6/2012 09:19:41 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.718%	-0.004	0.464
%RSD		29.082	103.700	21.040
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		6.365	3.861	1.074
%RSD		58.000	94.580	133.800
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	1.162	8.075
%RSD		±0.000	349.000	88.310
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±97.703%	108.327%	0.089
%RSD		±14.455	0.843	200.100
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.053	-0.011	0.212
%RSD		309.300	112.100	361.300
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.012	5.468	0.008
%RSD		52.950	19.540	50.120
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.027	0.017	0.038
%RSD		50.710	132.000	114.000
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		106.264%	-0.027	0.015
%RSD		1.561	150.900	234.400
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.050	0.008	1.797
%RSD		98.480	99.280	7.679
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.003	-0.296
%RSD		0.000	62.400	162.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.013	105.085%	0.021
%RSD		109.200	0.758	39.920
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.083	-0.017	0.000
%RSD		4.742	91.130	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		103.833%	0.561	0.305
%RSD		1.163	10.530	8.517
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.017	0.000	
%RSD		33.250	0.000	

mb 240-49868/1 -c, 7/6/2012 09:25:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.549%	0.001	4.923
%RSD		29.552	427.600	2.698
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		46.790	41.230	19.610
%RSD		2.145	5.120	10.890
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	33.990	244.000
%RSD		±0.000	11.810	1.093
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±97.998%	104.481%	0.291
%RSD		±14.187	0.553	67.180
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.152	0.109	-0.449
%RSD		52.730	22.320	82.870
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.415	77.570	0.010
%RSD		4.146	0.807	20.610
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.232	0.856	31.480
%RSD		13.710	8.587	0.464
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		103.458%	-0.086	0.275
%RSD		1.120	94.770	8.605
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.011	0.679	0.587
%RSD		270.500	10.130	3.827
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.003	-0.294
%RSD		0.000	32.760	169.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.000	102.393%	0.120
%RSD		1106.000	0.396	18.510
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.100	0.783	0.000
%RSD		29.890	0.615	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.153%	0.200	0.115
%RSD		1.175	8.610	11.540
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.119	0.000	
%RSD		6.528	0.000	

Ics 240-49878/2-a, 7/6/2012 09:30:42 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		84.148%	M 1052.000	97.730
%RSD		30.593	M 2.947	2.952
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8646.000	9578.000	M 9345.000
%RSD		0.492	1.077	M 0.976
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 9597.000	9532.000
%RSD		T 0.000	T 1.285	1.603
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 90.829%	103.644%	89.120
%RSD		T 15.143	1.105	1.950
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 912.800	M 946.700	133.800
%RSD		M 0.653	M 0.484	1.639
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 943.400	T 9346.000	M 951.200
%RSD		T 1.604	T 0.748	M 0.522
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 976.500	M 990.700	M 990.900
%RSD		M 1.061	M 1.020	M 0.699
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		101.182%	M 915.000	-3.972
%RSD		1.513	M 0.417	8.472
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 929.400	M 864.900	93.450
%RSD		M 0.974	M 0.347	0.378
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	100.100	517.500
%RSD		0.000	0.266	21.270
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 950.300	102.138%	93.630
%RSD		M 0.219	1.648	0.406
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		94.960	M 914.700	0.000
%RSD		0.630	M 0.199	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		101.319%	90.520	TM 248.000
%RSD		1.913	0.532	TM 0.740
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1044.000	0.000	
%RSD		TM 0.505	0.000	

240-12077 -c-1-b, 7/6/2012 09:37:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.227%	0.023	M 357.600
%RSD		35.440	23.380	M 0.751
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 70960.000	51950.000	36.950
%RSD		T 0.987	0.735	6.395
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3019.000	M 136500.000
%RSD		T 0.000	T 2.332	M 1.102
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 88.333%	106.788%	0.780
%RSD		T 17.880	2.540	57.360
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.392	14.560	2.307
%RSD		88.500	1.152	47.940
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 270.200	T 7910.000	0.308
%RSD		T 2.689	T 0.668	9.523
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		7.346	0.907	1.894
%RSD		2.499	15.580	2.890
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		101.410%	1.433	0.214
%RSD		2.399	7.741	31.850
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.359	M 246.500	2.047
%RSD		6.970	M 1.016	6.533
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.030	-0.771
%RSD		0.000	11.830	65.870
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.015	102.098%	0.131
%RSD		68.660	2.404	27.640
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.202	M 326.400	0.000
%RSD		22.560	M 0.141	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.568%	0.504	0.404
%RSD		2.419	15.850	10.910
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.101	0.000	
%RSD		5.948	0.000	

SD 240-12077 -c-1-b@5, 7/6/2012 09:42:55 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.853%	0.011	76.990
%RSD		31.221	55.880	2.746
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		12870.000	10640.000	7.523
%RSD		1.138	2.027	14.820
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	546.200	27370.000
%RSD		10.000	1.841	0.505
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		96.169%	105.339%	0.142
%RSD		15.500	0.981	89.720
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.015	2.923	2.838
%RSD		327.500	0.609	8.299
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		47.310	1418.000	0.057
%RSD		2.852	0.634	27.900
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.593	0.143	0.529
%RSD		3.339	25.270	17.020
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		103.287%	0.347	0.063
%RSD		1.557	23.920	41.180
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.083	47.420	0.236
%RSD		51.560	0.638	28.230
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.005	-0.292
%RSD		0.000	78.100	30.860
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.001	101.802%	0.063
%RSD		953.700	0.805	37.720
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.059	64.410	0.000
%RSD		21.620	0.035	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.200%	0.141	0.148
%RSD		1.062	4.123	4.292
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.039	0.000	
%RSD		3.846	0.000	

240-12077 -c-1-c ms, 7/6/2012 09:48:01 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		63.281%	M 963.000	M 439.900
%RSD		36.793	M 5.400	M 0.531
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 78500.000	60390.000	M 9281.000
%RSD		T 0.207	0.188	M 0.445
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 12370.000	M 144000.000
%RSD		T 0.000	T 2.623	M 0.568
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 83.163%	108.205%	94.200
%RSD		T 18.689	2.415	0.376
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 937.200	M 965.500	134.700
%RSD		M 0.732	M 0.763	8.061
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1213.000	T 17110.000	M 943.300
%RSD		TM 3.362	T 0.161	M 0.273
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 948.300	M 937.000	M 943.500
%RSD		M 0.598	M 0.300	M 0.550
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.933%	M 940.600	-4.188
%RSD		2.207	M 0.608	10.830
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 932.600	M 1136.000	98.960
%RSD		M 0.427	M 0.684	0.656
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	93.930	581.300
%RSD		0.000	0.285	9.497
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 924.900	104.669%	93.640
%RSD		M 0.462	2.405	0.715
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		95.410	M 1253.000	0.000
%RSD		0.874	M 0.210	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		103.805%	92.760	TM 242.800
%RSD		1.460	0.837	TM 0.833
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1001.000	0.000	
%RSD		TM 0.437	0.000	

240-12077 -c-1-d msd, 7/6/2012 09:53:55 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		63.475%	M 977.000	M 448.300
%RSD		35.666	M 5.567	M 0.615
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 80590.000	61400.000	M 9548.000
%RSD		T 1.067	0.850	M 1.273
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 12640.000	M 146300.000
%RSD		T 0.000	T 2.258	M 0.595
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 83.394%	108.025%	98.510
%RSD		T 18.111	2.021	0.976
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 966.500	M 994.600	139.700
%RSD		M 0.331	M 0.855	3.795
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1237.000	T 17520.000	TM 1104.000
%RSD		TM 2.582	T 0.841	TM 0.972
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 970.300	M 961.000	M 982.000
%RSD		M 1.130	M 1.025	M 0.877
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.995%	M 961.600	-4.180
%RSD		2.063	M 0.283	3.921
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 965.700	M 1166.000	101.500
%RSD		M 0.635	M 0.466	0.703
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	95.370	405.000
%RSD		0.000	0.473	34.650
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 947.600	105.255%	95.320
%RSD		M 1.081	2.272	0.398
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		97.950	M 1283.000	0.000
%RSD		1.335	M 0.292	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		104.776%	95.570	TM 249.000
%RSD		1.875	0.666	TM 0.648
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1022.000	0.000	
%RSD		TM 0.317	0.000	

240-12077 -c-2-b, 7/6/2012 10:00:39 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		79.910%	0.318	M 196.700
%RSD		36.320	10.530	M 1.585
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 70960.000	39360.000	M 1046.000
%RSD		T 1.196	0.659	M 1.197
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3325.000	84680.000
%RSD		T 0.000	T 2.431	1.000
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 94.526%	109.075%	14.070
%RSD		T 17.466	2.316	16.230
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		2.019	18.470	4.657
%RSD		9.835	1.378	19.250
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		51.670	T 2927.000	1.013
%RSD		1.781	T 0.935	0.753
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		11.300	3.745	24.360
%RSD		1.818	8.075	1.399
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		103.710%	1.088	0.222
%RSD		1.325	13.860	18.910
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.664	M 326.100	0.826
%RSD		15.890	M 0.156	16.700
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.038	0.551
%RSD		0.000	12.810	374.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.201	103.545%	0.306
%RSD		12.400	2.081	10.480
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.448	M 617.600	0.000
%RSD		8.859	M 0.264	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.154%	0.794	0.535
%RSD		1.084	7.137	7.028
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		1.677	0.000	
%RSD		1.109	0.000	

240-12077 -c-3-b, 7/6/2012 10:06:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		68.276%	0.087	M 1290.000
%RSD		38.668	25.160	M 1.619
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		M 98870.000	60740.000	71.070
%RSD		M 1.734	0.997	5.095
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 5351.000	M 149800.000
%RSD		T 0.000	T 2.027	M 0.591
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 88.040%	110.617%	0.360
%RSD		T 19.560	3.453	91.390
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.284	0.233	1.942
%RSD		42.910	3.991	30.120
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 107.400	T 3939.000	0.228
%RSD		T 5.968	T 1.152	10.760
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		4.033	1.339	26.360
%RSD		4.336	4.630	1.708
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.173%	0.907	0.235
%RSD		2.603	20.720	12.210
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.289	M 229.800	0.971
%RSD		69.670	M 0.397	9.319
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.035	0.356
%RSD		0.000	14.440	103.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.071	103.299%	0.203
%RSD		39.450	1.899	5.809
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.118	167.300	0.000
%RSD		30.410	0.795	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.696%	0.236	0.233
%RSD		2.049	2.012	4.637
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.218	0.000	
%RSD		9.464	0.000	

240-12077 -c-4-b, 7/6/2012 10:11:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.005%	0.057	M 744.600
%RSD		36.026	27.650	M 1.610
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 69740.000	60650.000	87.360
%RSD		T 0.233	0.790	6.487
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3366.000	M 142700.000
%RSD		T 0.000	T 2.192	M 0.697
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 86.637%	107.511%	2.715
%RSD		T 18.407	1.554	20.060
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.362	2.073	1.232
%RSD		65.230	3.206	51.630
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		47.730	T 6464.000	0.309
%RSD		3.048	T 0.842	3.719
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.892	0.890	3.426
%RSD		9.045	3.550	3.205
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		100.403%	2.890	0.249
%RSD		1.932	3.168	20.800
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.074	M 242.500	1.386
%RSD		86.000	M 0.644	1.533
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.007	-0.848
%RSD		0.000	40.780	112.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.029	101.292%	0.080
%RSD		35.300	1.855	19.370
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.296	M 291.800	0.000
%RSD		3.042	M 0.695	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.263%	0.131	0.135
%RSD		2.019	14.600	10.180
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.243	0.000	
%RSD		3.863	0.000	

240-12077 -c-5-b, 7/6/2012 10:17:09 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		68.080%	0.047	M 939.400
%RSD		35.542	37.330	M 0.399
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 83060.000	65530.000	76.350
%RSD		T 0.605	0.630	4.375
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4520.000	M 149700.000
%RSD		T 0.000	T 1.908	M 0.738
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 87.496%	110.317%	2.633
%RSD		T 18.167	2.473	29.390
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.027	3.508	3.772
%RSD		960.500	1.885	18.070
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 128.100	T 4014.000	0.315
%RSD		T 4.319	T 0.395	4.691
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.195	1.208	7.280
%RSD		5.927	4.294	3.194
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		103.288%	0.497	0.253
%RSD		2.881	31.600	9.291
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.100	M 268.300	1.035
%RSD		47.940	M 0.378	11.470
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.003	0.658
%RSD		0.000	60.940	89.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.019	102.976%	0.110
%RSD		46.690	2.160	15.060
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.086	M 360.200	0.000
%RSD		10.280	M 0.452	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		102.225%	0.017	0.074
%RSD		2.328	21.120	12.370
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.521	0.000	
%RSD		2.099	0.000	

CCV 7/6/2012 10:22:51 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.920%	106.260%	108.741%
%RSD		35.802	4.267	1.714
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		102.992%	98.892%	100.334%
%RSD		1.326	0.963	2.408
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	100.469%	100.531%
%RSD		0.000	1.852	1.006
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		88.638%	116.334%	95.216%
%RSD		18.561	3.170	4.852
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		98.367%	99.890%	13.510
%RSD		1.212	1.660	10.660
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		100.099%	98.104%	100.804%
%RSD		2.791	1.020	0.837
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		101.638%	101.522%	100.851%
%RSD		1.332	1.590	1.234
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		108.592%	97.777%	-0.516
%RSD		2.740	0.190	23.610
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		97.813%	96.411%	102.010%
%RSD		2.671	0.688	0.829
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	100.828%	-4.897
%RSD		0.000	0.682	532.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		98.211%	108.291%	98.501%
%RSD		1.292	2.545	0.179
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		98.209%	97.464%	0.000
%RSD		0.475	1.329	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		106.663%	99.433%	93.234%
%RSD		1.598	0.153	0.133
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		96.570%	0.000	
%RSD		0.448	0.000	

CCB 7/6/2012 10:28:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		97.458%	0.014	4.254
%RSD		27.975	41.600	4.544
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		13.930	8.541	0.741
%RSD		17.240	30.470	91.420
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	2.222	4.802
%RSD		±0.000	146.100	168.200
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±96.887%	100.655%	0.025
%RSD		±13.482	0.999	348.900
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.211	-0.001	-0.355
%RSD		36.120	1599.000	162.800
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.030	5.281	0.018
%RSD		23.040	19.390	43.380
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.037	0.049	0.115
%RSD		67.430	32.150	66.160
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		98.686%	-0.078	0.017
%RSD		1.566	55.720	237.800
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.091	0.034	0.038
%RSD		55.970	20.090	167.500
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.016	-0.337
%RSD		0.000	22.400	154.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.015	98.639%	0.022
%RSD		53.730	1.900	197.300
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.069	0.035	0.000
%RSD		10.020	56.040	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.420%	0.358	0.295
%RSD		1.088	14.920	8.176
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.035	0.000	
%RSD		19.320	0.000	

IDL1 7/6/2012 10:34:32 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		96.854%	-0.003	2.522
%RSD		28.732	355.500	18.300
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-0.694	0.052	-0.396
%RSD		180.500	3072.000	126.800
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-1.422	-21.780
%RSD		±0.000	152.400	27.210
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±96.506%	97.302%	0.002
%RSD		±13.638	2.194	4981.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.166	-0.004	-0.532
%RSD		57.040	237.400	126.800
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.001	0.110	0.002
%RSD		631.800	184.000	139.700
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.021	0.004	-0.117
%RSD		98.680	593.000	144.800
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		93.999%	-0.087	0.046
%RSD		0.231	33.480	153.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.092	-0.002	-0.311
%RSD		90.630	105.600	11.070
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.000	-0.544
%RSD		0.000	276.000	47.440
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.002	95.660%	-0.000
%RSD		112.400	1.374	11370.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.006	0.009	0.000
%RSD		33.070	190.400	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.711%	0.054	0.100
%RSD		0.703	29.990	8.867
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.007	0.000	
%RSD		32.290	0.000	

IDL2 7/6/2012 10:39:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		98.184%	0.006	2.080
%RSD		28.918	106.900	1.234
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		5.457	5.775	0.095
%RSD		38.570	36.990	267.000
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-1.019	-21.110
%RSD		±0.000	337.800	5.961
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±96.673%	95.262%	0.030
%RSD		±12.923	1.104	305.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.151	0.002	-0.214
%RSD		26.380	640.100	88.270
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.015	0.708	0.012
%RSD		24.560	50.920	53.080
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.043	0.043	-0.067
%RSD		38.450	71.120	93.730
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		94.027%	-0.087	0.061
%RSD		1.238	114.300	86.560
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.005	0.023	-0.409
%RSD		1098.000	36.870	4.917
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.007	0.498
%RSD		0.000	19.240	212.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.007	93.521%	0.005
%RSD		52.050	1.066	668.800
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.005	0.017	0.000
%RSD		61.700	235.100	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.335%	-0.020	0.045
%RSD		0.554	53.400	3.220
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.017	0.000	
%RSD		16.020	0.000	

IDL3 7/6/2012 10:45:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		102.293%	0.012	1.676
%RSD		26.702	55.430	8.228
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		12.660	10.040	0.601
%RSD		10.500	15.790	92.360
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	1.187	-4.758
%RSD		± 0.000	231.000	82.900
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 95.967%	91.557%	-0.049
%RSD		± 11.975	1.848	97.690
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.140	0.008	0.021
%RSD		139.700	141.100	4074.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.039	1.705	0.022
%RSD		32.970	4.049	16.970
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.059	0.061	0.068
%RSD		53.660	28.100	224.900
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.024%	-0.016	0.008
%RSD		0.473	63.220	591.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.007	0.054	-0.412
%RSD		448.600	11.220	7.575
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.009	-0.120
%RSD		0.000	28.300	535.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.023	90.948%	-0.002
%RSD		37.670	0.730	1710.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.007	0.036	0.000
%RSD		49.460	51.460	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.984%	-0.066	0.025
%RSD		1.433	4.153	16.040
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.031	0.000	
%RSD		3.954	0.000	

IDL4 7/6/2012 10:50:16 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		101.693%	0.023	1.574
%RSD		27.320	52.820	17.120
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		19.500	13.510	-0.081
%RSD		4.354	30.910	237.100
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	2.474	-4.676
%RSD		± 0.000	114.400	38.350
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 94.859%	90.624%	-0.020
%RSD		± 12.723	1.601	504.800
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.182	0.009	-0.137
%RSD		39.810	259.300	25.160
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.077	2.717	0.035
%RSD		10.730	11.880	31.370
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.061	0.072	-0.062
%RSD		30.100	41.730	177.400
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.613%	0.021	0.016
%RSD		2.583	113.900	201.400
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.014	0.086	-0.448
%RSD		121.800	24.740	4.789
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.013	-0.445
%RSD		0.000	41.980	263.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.035	90.805%	0.014
%RSD		29.890	1.528	159.500
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.012	0.066	0.000
%RSD		136.100	51.090	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.011%	-0.076	0.010
%RSD		0.579	4.141	43.320
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.040	0.000	
%RSD		1.839	0.000	

IDL5 7/6/2012 10:55:59 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		103.992%	0.009	1.073
%RSD		25.902	135.700	6.348
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3.402	0.959	0.148
%RSD		9.124	1.829	289.600
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	1.026	-2.345
%RSD		± 0.000	211.500	178.100
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 94.530%	89.204%	-0.048
%RSD		± 12.057	0.523	102.700
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.070	0.003	-0.016
%RSD		90.230	870.800	1892.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.015	0.121	0.008
%RSD		23.690	160.600	39.090
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.004	0.037	-0.127
%RSD		601.500	119.000	90.830
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.555%	-0.027	0.013
%RSD		1.406	156.700	438.500
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.032	0.018	-0.461
%RSD		212.300	20.740	1.253
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.002	-0.176
%RSD		0.000	1.702	215.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.002	88.704%	-0.041
%RSD		337.500	0.837	39.130
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.006	0.041	0.000
%RSD		91.980	75.860	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		87.471%	-0.117	-0.019
%RSD		1.404	3.283	32.850
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.010	0.000	
%RSD		12.870	0.000	

IDL6 7/6/2012 11:01:48 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		106.721%	0.012	0.878
%RSD		26.280	121.100	23.310
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		6.497	4.829	-0.238
%RSD		19.570	44.360	111.800
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	1.254	2.088
%RSD		±0.000	188.600	150.300
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±95.269%	88.369%	-0.077
%RSD		±11.467	0.673	0.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.213	-0.022	-0.477
%RSD		54.820	133.000	129.900
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.033	0.616	0.015
%RSD		18.160	44.610	38.300
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.038	0.050	0.099
%RSD		82.790	44.640	88.780
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.593%	0.003	-0.010
%RSD		1.376	2604.000	293.600
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.005	0.028	-0.466
%RSD		445.000	2.529	1.766
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	-0.395
%RSD		0.000	290.400	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.005	88.059%	-0.019
%RSD		178.200	0.483	121.700
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.014	-0.000	0.000
%RSD		57.480	11080.000	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.669%	-0.132	-0.027
%RSD		1.337	5.913	13.860
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.016	0.000	
%RSD		12.190	0.000	

IDL7 7/6/2012 11:07:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		106.560%	0.001	0.822
%RSD		24.827	1097.000	27.890
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		-2.520	-1.711	0.386
%RSD		19.490	70.080	37.530
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-1.621	-31.440
%RSD		±0.000	197.400	12.220
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±93.274%	86.275%	-0.077
%RSD		±11.653	0.429	0.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.088	-0.027	-0.033
%RSD		266.700	92.730	952.800
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		-0.016	-0.889	-0.002
%RSD		38.940	10.650	76.980
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.008	0.007	-0.383
%RSD		226.600	128.700	38.540
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.223%	-0.031	0.034
%RSD		0.815	559.300	33.740
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.037	-0.013	-0.475
%RSD		132.800	35.720	3.706
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.002	-0.395
%RSD		0.000	0.844	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.003	86.348%	0.006
%RSD		85.390	0.734	389.200
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.005	-0.023	0.000
%RSD		41.960	158.300	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		84.889%	-0.140	-0.038
%RSD		1.283	3.270	10.020
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.001	0.000	
%RSD		378.300	0.000	

IDL8 7/6/2012 11:13:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		104.767%	0.002	0.567
%RSD		23.281	588.100	22.500
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3.069	1.124	1.528
%RSD		52.780	164.900	25.680
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	-0.796	-25.970
%RSD		± 0.000	297.000	1.457
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 92.602%	84.886%	0.014
%RSD		± 10.499	1.167	7.759
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.096	-0.019	-0.057
%RSD		352.200	106.000	1199.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.006	-0.201	0.009
%RSD		207.100	77.870	58.260
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.044	0.004	-0.174
%RSD		48.470	583.300	116.300
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.913%	-0.083	0.032
%RSD		1.374	79.580	128.500
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.013	0.009	-0.481
%RSD		164.100	150.000	2.558
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.000	-0.163
%RSD		0.000	851.600	247.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.003	84.727%	0.010
%RSD		228.700	1.961	133.100
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.012	-0.019	0.000
%RSD		64.300	86.720	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.936%	-0.149	-0.044
%RSD		0.780	1.982	4.914
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.008	0.000	
%RSD		11.250	0.000	

IDL9 7/6/2012 11:18:57 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		110.880%	-0.003	0.449
%RSD		26.770	253.800	32.300
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3.716	3.683	2.529
%RSD		20.250	76.390	23.090
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	0.957	-15.820
%RSD		±0.000	280.700	6.286
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±93.500%	85.249%	0.014
%RSD		±11.093	0.960	1106.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.212	-0.006	-0.271
%RSD		25.660	240.000	107.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.032	0.086	0.007
%RSD		24.590	118.700	40.990
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.043	0.004	-0.101
%RSD		26.070	1169.000	96.300
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		82.174%	0.023	0.024
%RSD		0.343	89.320	98.830
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.064	0.033	-0.498
%RSD		15.990	17.330	4.373
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.000	-0.164
%RSD		0.000	705.400	243.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.005	84.747%	0.039
%RSD		113.900	0.779	70.850
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.009	0.029	0.000
%RSD		130.600	154.900	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.273%	-0.156	-0.051
%RSD		0.381	2.690	3.624
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.009	0.000	
%RSD		13.080	0.000	

IDL10 7/6/2012 11:24:45 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		111.729%	0.000	0.430
%RSD		26.654	105800.000	30.560
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		4.568	0.936	2.954
%RSD		12.930	84.060	60.250
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	0.588	-15.970
%RSD		±0.000	408.900	22.450
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±92.856%	83.705%	-0.046
%RSD		±11.564	1.129	112.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.076	-0.011	-0.065
%RSD		204.000	122.500	164.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.046	0.080	0.007
%RSD		6.745	195.100	41.450
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.041	0.004	-0.058
%RSD		75.810	780.500	107.000
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.627%	-0.077	-0.006
%RSD		1.271	9.245	740.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.010	0.012	-0.485
%RSD		795.300	48.460	4.556
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-0.395
%RSD		0.000	48.810	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.010	83.057%	0.008
%RSD		129.400	1.179	206.700
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		-0.019	-0.010	0.000
%RSD		40.910	413.300	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		81.853%	-0.171	-0.054
%RSD		1.247	3.967	4.726
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.009	0.000	
%RSD		28.410	0.000	

CCV 7/6/2012 11:30:28 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		93.146%	114.405%	103.466%
%RSD		34.407	3.894	3.034
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		101.147%	95.499%	99.691%
%RSD		0.546	0.955	0.306
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	99.910%	100.981%
%RSD		0.000	2.006	0.516
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		91.990%	99.723%	98.606%
%RSD		16.401	1.838	3.804
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		96.785%	98.860%	13.000
%RSD		0.865	1.179	14.420
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		98.713%	94.573%	99.487%
%RSD		1.679	0.392	0.442
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		98.969%	99.973%	102.213%
%RSD		1.482	0.535	2.262
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		92.337%	98.097%	-0.444
%RSD		2.520	0.832	18.460
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.071%	97.534%	100.892%
%RSD		1.973	0.561	0.431
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	99.559%	38.420
%RSD		0.000	0.401	53.360
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		98.354%	93.492%	97.665%
%RSD		1.173	2.249	1.225
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		97.879%	96.171%	0.000
%RSD		0.461	0.282	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		91.094%	99.040%	95.001%
%RSD		1.722	0.059	0.531
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		96.032%	0.000	
%RSD		0.509	0.000	

CCB 7/6/2012 11:36:17 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		115.845%	0.018	0.894
%RSD		27.999	84.310	14.860
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		7.068	4.539	0.255
%RSD		3.147	77.230	369.700
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	5.376	3.656
%RSD		10.000	56.370	113.200
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		197.101%	89.571%	-0.048
%RSD		12.409	1.011	101.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.000	-0.017	0.374
%RSD		87950.000	139.700	103.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.051	4.676	0.013
%RSD		35.800	7.058	33.180
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.047	0.049	-0.064
%RSD		58.830	47.520	55.910
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.982%	0.034	0.040
%RSD		0.681	35.280	71.210
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.005	0.043	-0.024
%RSD		1470.000	42.010	228.700
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.010	0.333
%RSD		0.000	33.570	511.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.021	88.331%	0.002
%RSD		84.480	0.993	443.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.051	0.063	0.000
%RSD		41.220	79.450	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.773%	0.302	0.238
%RSD		0.427	15.610	11.690
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.019	0.000	
%RSD		6.731	0.000	

240-12077 -c-6-b, 7/6/2012 11:41:15 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		91.076%	0.009	M 295.500
%RSD		30.780	98.880	M 2.497
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 59540.000	46550.000	85.850
%RSD		T 0.523	0.692	3.032
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3847.000	M 113300.000
%RSD		T 0.000	T 1.168	M 0.249
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 90.952%	94.029%	2.052
%RSD		T 15.195	0.442	38.980
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.173	1.600	1.677
%RSD		139.300	0.801	44.090
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 155.700	T 4538.000	0.170
%RSD		T 1.789	T 1.519	14.780
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.216	0.538	1.177
%RSD		3.351	28.790	7.503
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.262%	0.252	0.233
%RSD		1.305	25.710	15.240
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.023	M 261.200	0.623
%RSD		244.900	M 0.459	2.575
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-0.496
%RSD		0.000	84.190	133.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.009	88.794%	0.076
%RSD		24.980	1.946	34.970
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.072	M 668.000	0.000
%RSD		10.050	M 0.573	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		87.608%	0.019	0.061
%RSD		1.839	53.380	13.800
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.142	0.000	
%RSD		8.859	0.000	

240-12077 -c-7-b, 7/6/2012 11:46:48 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		87.819%	0.015	M 331.000
%RSD		33.057	148.200	M 2.593
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 68670.000	47060.000	22.020
%RSD		T 0.694	0.774	3.208
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 2892.000	M 133500.000
%RSD		T 0.000	T 1.732	M 0.632
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 88.690%	90.935%	0.459
%RSD		T 15.645	2.118	27.550
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.127	2.460	1.135
%RSD		91.890	2.146	45.950
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 334.700	T 6765.000	0.200
%RSD		T 1.505	T 1.209	6.636
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.471	0.499	2.098
%RSD		4.965	9.089	2.997
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.631%	0.375	0.186
%RSD		2.149	13.250	24.450
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.019	M 248.500	0.831
%RSD		230.100	M 0.811	5.774
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-1.560
%RSD		0.000	49.720	66.110
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.008	86.877%	0.068
%RSD		60.960	3.012	42.960
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.029	M 375.400	0.000
%RSD		47.790	M 0.781	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.050%	-0.056	0.003
%RSD		1.512	10.280	270.200
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.068	0.000	
%RSD		2.670	0.000	

240-12077 -c-8-b, 7/6/2012 11:52:29 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		85.693%	-0.002	M 882.800
%RSD		30.204	168.200	M 2.140
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 98560.000	46210.000	5.045
%RSD		T 0.556	0.886	31.360
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 2640.000	M 126700.000
%RSD		T 0.000	T 2.114	M 0.831
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 87.764%	91.995%	0.065
%RSD		T 14.382	1.542	273.800
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.267	11.350	2.058
%RSD		67.160	1.544	11.990
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 459.800	T 5590.000	1.169
%RSD		T 1.392	T 0.575	0.440
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		44.910	0.836	1.475
%RSD		1.398	6.084	7.036
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.495%	0.718	0.247
%RSD		2.369	0.514	8.011
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.020	M 231.300	1.824
%RSD		350.800	M 1.064	3.067
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	0.110
%RSD		0.000	52.170	251.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.000	87.917%	0.076
%RSD		47950.000	1.790	26.590
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.009	M 309.100	0.000
%RSD		144.200	M 0.534	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.747%	-0.108	-0.034
%RSD		1.875	15.920	4.641
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.020	0.000	
%RSD		16.480	0.000	

240-12160 -f-1-c, 7/6/2012 11:58:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		80.881%	-0.008	M 1245.000
%RSD		32.159	96.090	M 1.428
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 99590.000	63360.000	23.510
%RSD		T 0.307	0.594	1.246
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3913.000	M 163900.000
%RSD		T 0.000	T 2.219	M 0.535
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 87.505%	95.795%	0.619
%RSD		T 15.612	2.119	31.220
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.277	4.188	1.328
%RSD		85.260	2.174	50.510
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 113.100	T 6243.000	0.239
%RSD		T 7.020	T 0.528	15.490
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		3.511	1.081	1.925
%RSD		2.018	9.333	4.105
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		88.815%	1.117	0.261
%RSD		2.677	10.720	14.480
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.020	M 268.700	0.863
%RSD		378.400	M 0.421	5.025
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.005	-0.810
%RSD		0.000	88.090	11.520
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.013	90.431%	0.079
%RSD		120.800	2.632	28.180
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.015	M 328.100	0.000
%RSD		57.910	M 0.283	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		88.493%	-0.129	-0.047
%RSD		2.282	4.975	9.644
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.101	0.000	
%RSD		6.991	0.000	

240-12160 -f-2-c, 7/6/2012 12:03:52 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		74.931%	0.002	M 1319.000
%RSD		33.149	367.500	M 0.668
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 115500.000	67840.000	46.470
%RSD		TM 1.461	0.610	4.309
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3699.000	TM 189100.000
%RSD		T 0.000	T 2.057	TM 6.815
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 85.809%	99.095%	0.726
%RSD		T 16.705	3.450	12.810
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.052	3.958	1.932
%RSD		169.800	1.997	1.637
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		91.540	T 7754.000	0.240
%RSD		2.747	T 0.791	2.172
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.634	1.052	3.367
%RSD		1.894	3.146	2.429
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.879%	1.748	0.228
%RSD		2.410	6.034	15.890
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.029	M 290.300	1.046
%RSD		131.100	M 0.370	10.110
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-0.388
%RSD		0.000	180.500	186.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.004	91.778%	0.114
%RSD		50.270	2.551	3.825
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.025	M 311.200	0.000
%RSD		31.930	M 0.524	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.198%	-0.140	-0.056
%RSD		2.327	4.642	3.349
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.082	0.000	
%RSD		2.036	0.000	

240-12160 -f-3-c, 7/6/2012 12:09:32 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		74.525%	0.001	M 1274.000
%RSD		35.202	782.600	M 1.475
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 112300.000	65530.000	34.210
%RSD		TM 0.862	1.007	2.071
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3549.000	TM 182500.000
%RSD		T 0.000	T 2.143	TM 6.758
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 85.815%	100.152%	0.696
%RSD		T 17.738	1.778	24.250
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.066	3.101	1.763
%RSD		380.700	0.363	46.820
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		88.420	T 7468.000	0.204
%RSD		2.598	T 0.717	3.290
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.281	0.796	1.523
%RSD		7.710	5.114	11.820
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.564%	1.832	0.245
%RSD		3.017	4.662	21.870
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.028	M 279.100	1.091
%RSD		10.580	M 0.355	0.844
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.003	-0.337
%RSD		0.000	127.600	30.050
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.016	93.678%	0.058
%RSD		36.450	2.811	19.940
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.018	M 298.500	0.000
%RSD		65.810	M 0.292	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.726%	-0.161	-0.070
%RSD		2.032	4.483	4.663
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.068	0.000	
%RSD		1.149	0.000	

180-11904 -b-9-b, 7/6/2012 12:15:16 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		40.073%	-0.009	M 224.400
%RSD		46.206	101.400	M 1.685
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 1123000.000	28710.000	32.070
%RSD		TM 0.178	1.616	6.749
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 7643.000	M 116400.000
%RSD		T 0.000	T 4.966	M 6.778
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 69.269%	124.593%	0.050
%RSD		T 29.162	2.354	220.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.143	0.263	2.210
%RSD		119.400	7.692	34.810
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		38.230	-14.150	1.066
%RSD		12.170	35.080	6.425
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		12.560	1.024	2.812
%RSD		0.264	4.395	5.397
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		102.713%	2.972	-0.369
%RSD		3.537	0.943	19.780
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		4.232	TM 4059.000	22.110
%RSD		5.806	TM 0.964	0.644
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.000	0.883
%RSD		0.000	18100.000	121.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.009	105.071%	0.101
%RSD		200.300	2.454	19.320
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		3.323	55.470	0.000
%RSD		2.821	0.283	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		99.485%	0.220	-0.014
%RSD		2.070	9.283	25.920
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.029	0.000	
%RSD		15.170	0.000	

180-11904 -b-10 -b, 7/6/2012 12:21:00 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		62.585%	-0.005	125.200
%RSD		42.675	38.070	4.057
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 382300.000</u>	16720.000	14.480
%RSD		<u>TM 1.303</u>	0.834	4.599
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>T 0.000</u>	<u>T 4863.000</u>	<u>M 99630.000</u>
%RSD		<u>T 0.000</u>	<u>T 5.081</u>	<u>M 6.945</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 80.148%</u>	114.621%	0.079
%RSD		<u>T 27.636</u>	2.725	176.500
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.507	0.121	3.099
%RSD		10.100	10.400	6.296
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		9.686	-18.810	0.596
%RSD		11.590	24.460	3.515
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		3.984	2.096	2.669
%RSD		2.954	4.395	7.365
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		101.517%	1.463	0.053
%RSD		1.667	5.090	116.600
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.753	<u>M 1133.000</u>	5.468
%RSD		7.328	<u>M 0.503</u>	4.241
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.003	0.681
%RSD		0.000	30.240	122.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.005	100.919%	0.072
%RSD		72.360	2.288	3.896
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.575	105.900	0.000
%RSD		5.651	0.653	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		96.560%	-0.149	-0.063
%RSD		1.403	3.113	3.169
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.026	0.000	
%RSD		0.895	0.000	

180-11904 -b-11 -b, 7/6/2012 12:26:42 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.650%	-0.013	92.080
%RSD		36.402	72.200	0.715
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 235800.000</u>	13390.000	23.660
%RSD		<u>TM 1.894</u>	2.103	6.990
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>12654.000</u>	80120.000
%RSD		<u>10.000</u>	<u>12.914</u>	1.403
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>181.095%</u>	107.344%	0.067
%RSD		<u>19.182</u>	3.174	185.500
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.586	0.115	3.904
%RSD		26.680	15.120	10.390
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.819	-10.130	0.072
%RSD		2.116	39.200	3.660
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.531	0.861	1.316
%RSD		4.206	6.284	5.714
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.806%	0.791	0.123
%RSD		0.917	7.712	20.020
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.868	<u>M 748.700</u>	1.868
%RSD		21.970	<u>M 0.616</u>	2.357
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.002	-0.640
%RSD		0.000	43.940	88.860
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.003	97.357%	0.063
%RSD		112.900	1.746	12.630
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.185	94.180	0.000
%RSD		4.502	0.301	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.075%	-0.167	-0.070
%RSD		1.531	2.654	2.321
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.017	0.000	
%RSD		23.860	0.000	

180-11904 -b-12 -b, 7/6/2012 12:32:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		62.407%	-0.012	100.700
%RSD		37.812	38.170	6.060
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 241400.000</u>	13220.000	85.760
%RSD		<u>TM 1.584</u>	1.305	3.596
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>12854.000</u>	84090.000
%RSD		<u>10.000</u>	<u>14.691</u>	6.182
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>175.076%</u>	104.752%	-0.002
%RSD		<u>125.286</u>	2.544	3630.000
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.521	0.156	3.484
%RSD		33.570	13.050	10.630
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		3.993	-0.696	0.078
%RSD		10.390	552.100	8.176
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.604	1.149	4.929
%RSD		2.579	1.457	0.837
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.059%	0.875	0.158
%RSD		1.320	5.726	30.240
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.804	<u>M 766.800</u>	1.885
%RSD		4.255	<u>M 0.269</u>	5.631
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.000	0.221
%RSD		0.000	1377.000	5.006
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.005	95.167%	0.149
%RSD		78.330	1.996	8.850
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.189	91.720	0.000
%RSD		4.922	0.351	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		91.250%	-0.182	-0.078
%RSD		1.290	6.101	3.750
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.108	0.000	
%RSD		5.733	0.000	

CCV 7/6/2012 12:38:13 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		67.973%	116.166%	116.079%
%RSD		38.104	2.376	8.115
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		105.072%	95.520%	101.254%
%RSD		1.168	0.498	2.480
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	103.911%	107.506%
%RSD		0.000	5.664	6.670
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		76.600%	104.963%	98.681%
%RSD		25.927	2.294	0.401
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		97.842%	99.695%	14.380
%RSD		0.553	0.485	20.070
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		106.797%	94.591%	100.619%
%RSD		10.030	0.576	0.705
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		100.047%	100.852%	102.412%
%RSD		0.285	0.946	0.477
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.886%	97.055%	-0.513
%RSD		1.738	1.484	38.990
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.698%	96.856%	99.833%
%RSD		0.675	0.760	0.341
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	98.323%	29.890
%RSD		0.000	0.264	87.470
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		96.730%	98.321%	96.236%
%RSD		1.121	1.411	0.528
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		96.357%	95.658%	0.000
%RSD		0.428	0.497	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		93.622%	98.407%	95.897%
%RSD		1.786	0.356	0.216
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		92.742%	0.000	
%RSD		0.191	0.000	

CCB 7/6/2012 12:44:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		88.076%	0.001	3.060
%RSD		27.968	322.800	8.104
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		41.510	8.570	1.126
%RSD		12.700	24.830	23.340
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	8.144	27.200
%RSD		±0.000	60.160	17.810
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±87.064%	94.867%	0.031
%RSD		±13.745	0.806	398.800
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.041	0.011	0.762
%RSD		381.900	127.900	37.530
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.109	4.975	0.019
%RSD		20.420	6.222	18.520
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.021	0.017	-0.033
%RSD		63.760	67.350	505.800
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.213%	0.016	0.018
%RSD		0.439	327.800	240.400
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.053	0.123	-0.026
%RSD		91.830	12.230	254.100
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.016	-0.494
%RSD		0.000	6.921	67.630
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.014	91.053%	-0.031
%RSD		26.300	0.343	104.900
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.072	0.031	0.000
%RSD		7.986	72.210	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.927%	0.269	0.240
%RSD		0.861	7.749	13.840
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.022	0.000	
%RSD		13.550	0.000	

180-11904 -b-13 -b, 7/6/2012 12:49:47 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		70.512%	0.012	92.130
%RSD		35.507	113.000	0.999
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 208100.000</u>	12140.000	63.780
%RSD		<u>TM 1.090</u>	1.067	3.514
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>12952.000</u>	68870.000
%RSD		<u>10.000</u>	<u>1.761</u>	0.457
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>182.794%</u>	104.891%	0.068
%RSD		<u>17.219</u>	2.405	280.200
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.322	0.101	2.367
%RSD		47.680	6.465	20.270
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1.147	-10.080	0.267
%RSD		3.406	28.610	2.057
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.779	1.630	2.111
%RSD		5.368	1.646	5.781
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		94.398%	0.849	0.126
%RSD		2.488	5.275	20.690
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.496	<u>M 732.000</u>	3.572
%RSD		16.960	<u>M 0.291</u>	3.545
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	-0.643
%RSD		0.000	507.000	55.920
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.010	94.398%	0.125
%RSD		112.500	1.812	12.760
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.351	73.030	0.000
%RSD		4.745	1.078	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.408%	-0.004	0.045
%RSD		0.815	518.100	23.770
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.029	0.000	
%RSD		9.614	0.000	

180-11904 -b-14 -b, 7/6/2012 12:55:32 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		79.119%	-0.000	74.780
%RSD		33.180	11910.000	3.484
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		73030.000	7984.000	61.620
%RSD		0.544	1.150	1.866
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	1794.000	48000.000
%RSD		0.000	0.935	0.466
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		83.094%	97.925%	0.186
%RSD		16.833	1.130	22.920
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.766	0.074	1.405
%RSD		24.460	11.940	51.780
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		2.820	2.867	0.079
%RSD		2.746	72.010	17.960
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.300	0.834	1.527
%RSD		11.100	10.750	25.880
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		89.937%	1.171	0.209
%RSD		1.728	5.444	20.550
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.280	346.600	1.354
%RSD		59.140	0.551	5.283
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.003	-1.020
%RSD		0.000	14.350	69.540
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.002	90.368%	0.061
%RSD		166.400	1.858	49.160
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.160	69.310	0.000
%RSD		11.640	0.225	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.973%	-0.087	-0.004
%RSD		1.500	13.140	97.650
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.036	0.000	
%RSD		7.392	0.000	

180-11904 -b-15 -b, 7/6/2012 13:01:19 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.627%	-0.005	32.650
%RSD		29.569	268.000	1.933
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		9144.000	10050.000	22.270
%RSD		0.935	1.863	5.076
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±3475.000	68580.000
%RSD		±0.000	±1.233	0.159
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±80.009%	90.790%	0.175
%RSD		±13.917	2.097	125.100
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.381	0.170	1.398
%RSD		25.670	24.610	8.311
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		88.140	-11.440	0.130
%RSD		1.632	21.480	11.210
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.607	0.808	3.901
%RSD		16.290	9.359	1.280
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.771%	1.371	0.250
%RSD		1.051	11.070	13.800
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.154	M 232.600	1.466
%RSD		50.990	M 0.340	3.727
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	-0.168
%RSD		0.000	192.500	234.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.002	86.299%	0.064
%RSD		218.700	1.662	12.460
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.108	58.640	0.000
%RSD		21.040	0.541	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.707%	-0.123	-0.028
%RSD		1.939	2.041	12.620
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.024	0.000	
%RSD		8.182	0.000	

180-11904 -b-16 -b, 7/6/2012 13:07:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		67.597%	-0.004	86.590
%RSD		36.307	171.800	2.742
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 242800.000</u>	13000.000	8.964
%RSD		<u>TM 0.343</u>	0.987	17.060
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>12703.000</u>	81170.000
%RSD		<u>10.000</u>	<u>1.844</u>	1.450
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>178.824%</u>	100.502%	0.127
%RSD		<u>17.919</u>	1.810	90.310
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.494	0.103	2.449
%RSD		14.230	28.980	12.040
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.835	-10.900	0.080
%RSD		3.090	32.830	19.220
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.637	1.109	1.523
%RSD		7.223	2.876	7.807
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.956%	0.875	0.148
%RSD		3.177	11.510	20.580
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.812	<u>M 777.300</u>	1.845
%RSD		26.080	<u>M 0.958</u>	8.071
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.003	-0.206
%RSD		0.000	21.190	476.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.002	91.231%	0.077
%RSD		202.000	2.309	35.870
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.188	92.480	0.000
%RSD		11.960	0.396	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		87.452%	-0.138	-0.053
%RSD		1.731	8.427	2.394
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.008	0.000	
%RSD		44.310	0.000	

240-12605 -e-1-c, 7/6/2012 13:12:52 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		81.318%	-0.005	17.220
%RSD		33.459	154.100	1.647
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3998.000	28630.000	5.191
%RSD		1.528	0.497	10.680
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±1303.000	54710.000
%RSD		±0.000	±1.045	0.650
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±82.684%	98.819%	-0.026
%RSD		±16.687	1.841	347.300
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.271	0.578	6.128
%RSD		50.640	2.787	5.466
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.198	-13.200	0.018
%RSD		8.595	17.410	25.230
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.267	0.456	27.330
%RSD		34.320	16.490	1.343
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.214%	0.200	0.318
%RSD		0.716	33.950	19.940
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.063	52.350	-0.452
%RSD		128.800	0.764	3.615
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.002	-0.219
%RSD		0.000	58.870	1066.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.077	89.728%	0.090
%RSD		15.830	1.897	19.050
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.020	49.400	0.000
%RSD		98.560	2.126	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.176%	-0.162	-0.061
%RSD		1.209	4.835	12.390
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.031	0.000	
%RSD		14.660	0.000	

mb 240-49955/1 -a, 7/6/2012 13:18:33 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		95.332%	-0.011	3.730
%RSD		28.403	74.390	4.960
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		58.590	34.720	2.027
%RSD		7.306	28.760	48.470
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	8.954	172.700
%RSD		±0.000	34.710	4.696
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±86.211%	86.807%	0.101
%RSD		±13.646	0.703	153.100
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.069	0.129	4.750
%RSD		222.600	28.900	5.875
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.280	6.313	0.006
%RSD		3.512	0.805	21.760
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.173	0.449	6.086
%RSD		24.990	8.894	1.372
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.979%	-0.044	0.302
%RSD		0.814	49.110	8.103
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.034	0.456	-0.463
%RSD		138.100	10.900	4.731
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-0.502
%RSD		0.000	305.700	139.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.003	83.617%	-0.014
%RSD		227.400	0.467	187.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.011	0.889	0.000
%RSD		260.200	7.519	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		79.670%	-0.168	-0.074
%RSD		0.532	3.228	2.146
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.082	0.000	
%RSD		3.838	0.000	

Ics 240-49955/2-a, 7/6/2012 13:24:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		88.636%	M 1164.000	106.400
%RSD		28.090	M 2.499	3.830
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8798.000	8947.000	M 9346.000
%RSD		0.653	0.730	M 0.689
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 9401.000	9877.000
%RSD		T 0.000	T 0.682	0.593
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 80.086%	85.422%	93.980
%RSD		T 13.736	0.920	4.580
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 924.200	M 962.500	130.200
%RSD		M 0.800	M 0.535	2.502
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 997.800	T 8815.000	M 966.900
%RSD		TM 1.612	T 0.897	M 0.025
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 989.300	M 1013.000	M 1045.000
%RSD		M 0.139	M 0.376	M 0.059
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		80.897%	M 941.700	-3.933
%RSD		1.857	M 0.850	13.780
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 983.000	M 896.400	94.520
%RSD		M 0.629	M 0.645	1.822
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	99.710	471.600
%RSD		0.000	0.997	8.370
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 958.200	83.070%	94.720
%RSD		M 0.475	1.366	0.755
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		95.890	M 931.300	0.000
%RSD		0.551	M 0.758	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		79.933%	93.560	TM 272.000
%RSD		1.033	0.196	TM 0.113
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1037.000	0.000	
%RSD		TM 0.579	0.000	

240-12701 -i-2-c, 7/6/2012 13:31:03 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.252%	0.728	131.300
%RSD		28.433	4.703	9.873
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11740.000	42390.000	M 14300.000
%RSD		0.101	0.693	M 0.479
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 6061.000	M 118000.000
%RSD		T 0.000	T 6.448	M 6.974
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 75.137%	89.541%	M 508.500
%RSD		T 19.622	1.947	M 1.935
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		30.630	21.470	1.894
%RSD		0.703	0.525	70.550
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1387.000	T 17250.000	12.550
%RSD		TM 9.025	T 0.490	0.487
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		27.670	45.830	88.740
%RSD		0.260	1.356	1.148
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.323%	5.040	0.312
%RSD		1.321	1.341	23.560
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.901	M 212.900	9.703
%RSD		7.209	M 0.979	0.336
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.098	-3.170
%RSD		0.000	2.685	184.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.255	85.086%	1.106
%RSD		3.119	1.667	3.768
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		6.687	M 331.500	0.000
%RSD		0.931	M 1.025	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.487%	1.191	0.510
%RSD		1.911	1.606	8.282
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		12.620	0.000	
%RSD		0.133	0.000	

240-12713 -b-1-b, 7/6/2012 13:36:46 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		55.553%	0.015	M 1557.000
%RSD		38.994	101.500	M 6.023
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		M 562800.000	6807.000	23.610
%RSD		M 0.458	1.490	3.884
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	± 28510.000	65340.000
%RSD		± 0.000	± 4.727	6.212
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 73.580%	106.905%	3.139
%RSD		± 25.397	2.941	30.980
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.435	0.831	-0.636
%RSD		16.170	3.966	47.660
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		83.740	359.600	0.180
%RSD		10.730	1.498	7.436
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		8.491	2.075	11.770
%RSD		1.476	9.651	2.230
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		93.688%	0.827	-0.367
%RSD		2.850	8.306	23.730
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.149	M 205.700	1.223
%RSD		10.570	M 1.118	7.714
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.009	-2.126
%RSD		0.000	34.160	82.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.019	95.072%	11.010
%RSD		48.860	2.943	1.720
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.368	M 649.500	0.000
%RSD		5.244	M 0.406	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		91.609%	0.076	0.104
%RSD		2.079	7.122	14.320
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.108	0.000	
%RSD		0.599	0.000	

240-12716 -c-1-c, 7/6/2012 13:42:30 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		45.330%	0.013	M 3767.000
%RSD		43.384	28.390	M 3.975
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		M 255600.000	9681.000	105.400
%RSD		M 1.509	1.366	1.033
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 19720.000	M 112500.000
%RSD		T 0.000	T 4.476	M 6.373
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 67.164%	109.340%	1.643
%RSD		T 28.170	2.308	6.586
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		2.035	2.950	1.223
%RSD		5.545	2.546	24.710
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		60.030	325.900	0.442
%RSD		11.550	2.575	4.606
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		4.576	35.850	99.610
%RSD		4.239	1.524	0.788
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.885%	3.704	-0.148
%RSD		2.651	3.146	60.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.284	M 261.500	1.802
%RSD		14.390	M 0.759	2.319
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.009	0.014
%RSD		0.000	38.150	7662.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.080	97.598%	6.851
%RSD		26.640	1.722	0.302
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.543	181.900	0.000
%RSD		2.641	0.200	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		94.702%	0.039	0.046
%RSD		1.328	24.400	16.730
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.819	0.000	
%RSD		1.249	0.000	

CCV 7/6/2012 13:48:12 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		53.183%	111.095%	135.823%
%RSD		39.200	2.298	7.436
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>105.179%</u>	92.379%	97.596%
%RSD		<u>1.652</u>	0.609	0.558
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>10.000</u>	<u>103.298%</u>	108.366%
%RSD		<u>10.000</u>	<u>4.907</u>	6.018
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>171.193%</u>	111.252%	94.945%
%RSD		<u>26.807</u>	2.025	0.826
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		98.254%	99.778%	13.590
%RSD		0.499	0.341	1.139
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>109.498%</u>	<u>92.358%</u>	100.636%
%RSD		<u>11.060</u>	<u>0.811</u>	0.021
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		100.507%	102.559%	102.104%
%RSD		1.134	0.565	0.583
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		100.834%	97.826%	-0.381
%RSD		1.523	0.574	6.258
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.997%	97.151%	100.632%
%RSD		3.255	0.455	0.897
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	98.039%	19.100
%RSD		0.000	0.702	33.070
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		96.091%	100.750%	95.591%
%RSD		0.934	1.791	0.617
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		95.777%	95.616%	0.000
%RSD		0.454	1.285	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.538%	98.315%	96.252%
%RSD		1.516	0.304	0.157
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		90.102%	0.000	
%RSD		0.467	0.000	

CCB 7/6/2012 13:54:38 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		80.275%	-0.002	9.714
%RSD		30.350	300.900	6.621
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		14.310	4.064	0.534
%RSD		5.127	31.860	119.900
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	0.100	12.200
%RSD		±0.000	3303.000	55.170
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±84.092%	92.779%	0.061
%RSD		±15.002	0.530	206.400
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.121	-0.013	0.305
%RSD		77.910	39.840	83.320
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.049	3.419	0.006
%RSD		13.590	18.590	43.010
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.039	0.039	0.147
%RSD		60.340	39.690	31.100
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.999%	-0.065	0.007
%RSD		0.780	138.700	233.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.038	0.036	-0.061
%RSD		184.800	21.150	104.700
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.003	-0.395
%RSD		0.000	20.850	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.008	88.875%	-0.023
%RSD		192.200	0.309	128.900
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.067	0.009	0.000
%RSD		4.930	511.000	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.367%	0.249	0.323
%RSD		0.460	14.870	10.510
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.012	0.000	
%RSD		3.545	0.000	

mb 240-49899/1-a, 7/6/2012 14:00:20 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.426%	0.002	8.782
%RSD		30.419	366.200	6.959
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10.700	0.338	3.309
%RSD		42.620	408.100	37.950
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	-1.401	34.440
%RSD		±0.000	223.000	16.710
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±87.334%	87.640%	0.099
%RSD		±13.643	0.358	88.640
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.141	0.061	1.000
%RSD		42.700	31.570	18.440
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1.589	4.733	0.003
%RSD		1.777	7.000	102.400
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.050	0.259	3.961
%RSD		106.400	10.220	3.533
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.610%	-0.070	0.303
%RSD		0.706	70.650	9.887
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.025	0.021	-0.396
%RSD		167.500	27.870	5.547
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	-0.165
%RSD		0.000	96.680	242.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.011	84.778%	0.105
%RSD		57.510	1.185	8.656
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.055	0.026	0.000
%RSD		36.280	187.100	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.280%	-0.028	0.111
%RSD		0.621	56.290	3.215
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.023	0.000	
%RSD		12.860	0.000	

Ics 240-49899/2-a, 7/6/2012 14:06:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		84.114%	M 1181.000	113.600
%RSD		29.318	M 5.148	10.900
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8937.000	8977.000	M 9679.000
%RSD		0.503	1.549	M 0.887
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 9914.000	10210.000
%RSD		T 0.000	T 6.810	6.524
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 79.049%	88.166%	92.660
%RSD		T 19.988	1.386	7.299
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 928.800	M 966.600	140.100
%RSD		M 1.032	M 0.399	4.078
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1038.000	T 8866.000	M 970.800
%RSD		TM 8.688	T 0.254	M 0.216
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 988.100	M 1010.000	M 1023.000
%RSD		M 0.430	M 0.036	M 0.702
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.857%	M 933.100	-4.804
%RSD		1.597	M 0.806	3.663
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 964.200	M 890.100	93.670
%RSD		M 1.400	M 0.276	0.636
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	97.700	500.800
%RSD		0.000	0.476	30.180
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 932.900	86.594%	91.850
%RSD		M 0.108	1.790	0.105
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		93.600	M 919.600	0.000
%RSD		0.410	M 0.273	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		81.145%	92.620	TM 269.000
%RSD		0.941	0.559	TM 0.834
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1007.000	0.000	
%RSD		TM 1.142	0.000	

240-12864 -a-1-a, 7/6/2012 14:13:29 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		32.499%	0.123	M 610.800
%RSD		44.187	12.940	M 6.555
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 112700.000	M 296200.000	2.967
%RSD		TM 1.604	M 0.578	6.027
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 6518.000	TM 448500.000
%RSD		T 0.000	T 2.676	TM 0.454
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 61.724%	113.686%	0.133
%RSD		T 23.028	4.053	144.900
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.203	0.383	6.145
%RSD		95.140	3.299	14.280
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3551.000	T 3560.000	9.034
%RSD		TM 4.588	T 0.824	1.070
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		9.646	0.238	3.049
%RSD		2.844	4.671	2.450
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.599%	2.809	0.345
%RSD		3.245	0.697	13.900
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.399	TM 2747.000	0.523
%RSD		33.820	TM 1.228	10.640
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.003	-0.067
%RSD		0.000	26.600	1597.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.049	100.443%	0.078
%RSD		44.570	4.065	20.990
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.129	11.720	0.000
%RSD		11.500	1.753	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.721%	0.256	0.436
%RSD		3.838	19.940	6.667
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.079	0.000	
%RSD		16.260	0.000	

SD 240-12864 -a-1-a@5, 7/6/2012 14:19:13 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		58.265%	0.099	164.700
%RSD		37.269	21.540	8.318
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		22760.000	60840.000	1.418
%RSD		1.204	0.567	9.788
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	1447.000	84580.000
%RSD		0.000	5.470	5.991
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		74.411%	107.115%	0.116
%RSD		25.151	1.354	74.170
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.182	0.227	9.389
%RSD		39.590	5.844	1.464
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		740.800	627.800	1.922
%RSD		10.500	0.815	1.908
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.138	0.167	0.656
%RSD		4.781	8.793	37.870
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		98.936%	0.667	0.135
%RSD		1.698	17.270	40.400
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.157	464.400	-0.270
%RSD		66.900	0.818	28.580
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.007	0.227
%RSD		0.000	75.490	296.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.069	96.842%	0.352
%RSD		40.120	0.500	12.080
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.044	2.388	0.000
%RSD		42.820	2.442	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		90.420%	0.022	0.199
%RSD		0.852	62.640	5.657
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.071	0.000	
%RSD		18.520	0.000	

240-12864 -a-1-b ms, 7/6/2012 14:24:57 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		29.714%	M 789.600	M 650.900
%RSD		49.115	M 13.890	M 9.911
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 121500.000	M 304600.000	M 9409.000
%RSD		TM 0.731	M 0.404	M 0.115
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 15550.000	TM 466400.000
%RSD		T 0.000	T 4.459	TM 0.517
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 60.571%	112.457%	98.080
%RSD		T 25.677	2.160	2.231
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 966.100	M 965.200	145.900
%RSD		M 0.527	M 0.216	2.750
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 4660.000	T 12460.000	M 957.200
%RSD		TM 5.474	T 0.533	M 0.364
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 923.000	M 913.800	M 922.400
%RSD		M 0.772	M 0.680	M 1.246
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		96.256%	M 968.100	-4.208
%RSD		2.907	M 0.639	4.520
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 1002.000	TM 3871.000	102.400
%RSD		M 0.935	TM 0.555	0.467
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	86.500	450.000
%RSD		0.000	0.785	21.520
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 868.800	101.283%	91.690
%RSD		M 0.647	2.480	0.408
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		92.670	M 965.900	0.000
%RSD		1.521	M 0.088	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		95.235%	93.390	TM 252.200
%RSD		2.693	0.389	TM 0.818
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 893.400	0.000	
%RSD		TM 0.688	0.000	

240-12864 -a-1-c msd, 7/6/2012 14:32:25 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		33.137%	M 771.900	M 637.300
%RSD		47.805	M 12.330	M 8.156
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 115800.000	M 288700.000	M 9117.000
%RSD		TM 0.451	M 0.795	M 1.120
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 15160.000	TM 450400.000
%RSD		T 0.000	T 3.639	TM 0.497
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 64.181%	108.900%	93.350
%RSD		T 23.889	1.255	0.599
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 931.200	M 926.600	143.700
%RSD		M 0.364	M 0.622	2.221
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 4468.000	T 11970.000	M 926.100
%RSD		TM 4.558	T 0.590	M 0.254
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 890.000	M 881.100	M 867.200
%RSD		M 0.598	M 0.395	M 0.693
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		91.987%	M 911.000	-3.491
%RSD		1.969	M 0.811	4.898
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 930.200	TM 3784.000	99.550
%RSD		M 0.968	TM 0.695	0.358
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	82.670	437.500
%RSD		0.000	0.798	33.380
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 819.200	98.117%	88.480
%RSD		M 0.713	2.373	0.494
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		87.310	M 938.700	0.000
%RSD		0.299	M 0.484	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.562%	90.110	TM 244.100
%RSD		1.407	0.364	TM 0.889
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 855.500	0.000	
%RSD		TM 0.355	0.000	

240-12160 -f-4-c, 7/6/2012 14:39:52 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		82.606%	0.178	M 560.200
%RSD		32.086	12.620	M 3.056
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 86920.000	54330.000	47.300
%RSD		T 0.456	0.566	8.336
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 5475.000	M 134800.000
%RSD		T 0.000	T 1.094	M 0.329
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 86.180%	90.214%	0.692
%RSD		T 15.078	0.702	48.700
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.543	0.892	2.492
%RSD		55.770	3.810	34.750
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		64.420	T 4859.000	0.242
%RSD		1.686	T 0.663	11.730
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.997	1.279	4.025
%RSD		10.880	6.329	3.670
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.879%	0.640	0.282
%RSD		0.924	8.179	10.870
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.489	M 261.900	1.223
%RSD		11.150	M 1.100	5.794
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.011	0.281
%RSD		0.000	20.840	450.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.098	83.486%	0.095
%RSD		13.570	1.798	20.480
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.187	M 330.100	0.000
%RSD		14.060	M 0.866	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.779%	0.327	0.530
%RSD		1.133	6.353	7.025
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.246	0.000	
%RSD		5.708	0.000	

240-12160 -f-5-c, 7/6/2012 14:45:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		105.897%	0.139	M 328.800
%RSD		27.626	15.440	M 1.960
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 29460.000	13580.000	20.200
%RSD		T 0.152	0.599	4.760
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4002.000	37010.000
%RSD		T 0.000	T 0.883	0.119
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 90.031%	83.758%	0.443
%RSD		T 12.208	0.635	31.560
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.119	0.210	1.725
%RSD		269.500	6.426	39.810
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 701.600	3108.000	0.104
%RSD		T 0.995	0.623	7.233
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.750	0.388	1.064
%RSD		2.604	10.920	15.730
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		80.244%	17.640	0.277
%RSD		0.493	1.377	5.180
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.160	193.200	104.800
%RSD		38.980	0.113	1.097
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.009	7.965
%RSD		0.000	25.510	20.480
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.020	81.000%	0.042
%RSD		71.030	0.512	127.900
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.092	M 272.800	0.000
%RSD		21.040	M 1.134	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		77.040%	0.913	0.266
%RSD		0.494	0.633	5.724
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.144	0.000	
%RSD		2.155	0.000	

240-12160 -f-6-c, 7/6/2012 14:51:16 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		63.990%	0.038	M 576.000
%RSD		38.021	20.950	M 6.493
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 613600.000	65580.000	157.000
%RSD		TM 0.181	0.881	0.990
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 5414.000	TM 195000.000
%RSD		T 0.000	T 4.137	TM 6.416
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 77.216%	93.198%	3.368
%RSD		T 24.296	1.494	23.850
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.348	11.670	1.541
%RSD		10.560	0.908	15.750
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3076.000	T 27140.000	0.993
%RSD		TM 10.580	T 0.444	0.876
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		12.620	0.861	2.623
%RSD		3.206	7.819	13.150
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		80.948%	71.570	0.213
%RSD		2.462	1.670	9.240
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.278	M 463.400	30.960
%RSD		18.760	M 0.538	2.484
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.005	-0.120
%RSD		0.000	62.280	680.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.014	83.978%	0.098
%RSD		184.400	2.019	22.900
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.093	M 367.300	0.000
%RSD		20.000	M 0.523	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.874%	0.086	0.130
%RSD		1.969	6.172	11.640
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.135	0.000	
%RSD		4.569	0.000	

240-12160 -f-7-c, 7/6/2012 14:57:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		91.662%	0.020	M 1154.000
%RSD		32.112	41.900	M 2.171
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 85170.000	57150.000	14.210
%RSD		T 0.898	0.595	16.330
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 3834.000	M 155400.000
%RSD		T 0.000	T 1.672	M 0.504
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 92.123%	93.062%	0.311
%RSD		T 15.309	1.522	55.040
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.564	18.840	4.678
%RSD		133.400	0.300	40.240
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 131.500	T 5065.000	0.359
%RSD		T 5.716	T 0.298	7.313
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		7.332	0.851	1.280
%RSD		2.108	8.280	17.150
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.912%	0.497	0.273
%RSD		1.395	25.130	13.150
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.081	M 299.000	1.636
%RSD		31.880	M 0.182	3.414
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.007	0.061
%RSD		0.000	47.680	1294.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.027	86.004%	0.010
%RSD		31.650	1.614	125.300
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.036	M 458.100	0.000
%RSD		64.090	M 0.094	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		82.735%	-0.045	0.095
%RSD		1.119	19.050	2.335
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.093	0.000	
%RSD		10.890	0.000	

CCV 7/6/2012 15:02:51 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		101.185%	112.044%	107.634%
%RSD		30.118	3.733	2.113
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		100.163%	87.411%	99.273%
%RSD		0.317	0.637	1.655
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	96.797%	100.449%
%RSD		0.000	0.967	0.364
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		94.002%	93.893%	96.889%
%RSD		14.265	0.997	2.725
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		95.942%	96.885%	14.860
%RSD		0.850	0.937	6.873
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		98.995%	89.288%	97.793%
%RSD		1.589	0.853	0.464
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		97.289%	98.369%	100.687%
%RSD		0.568	1.155	0.557
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.396%	97.034%	-0.511
%RSD		1.621	0.572	15.710
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.226%	97.977%	98.168%
%RSD		0.243	0.337	0.263
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	94.734%	84.980
%RSD		0.000	0.269	21.880
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		93.927%	88.899%	94.798%
%RSD		0.506	1.075	0.664
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		95.116%	96.731%	0.000
%RSD		0.235	0.483	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.684%	96.460%	96.693%
%RSD		1.370	0.215	0.448
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		91.257%	0.000	
%RSD		0.520	0.000	

CCB 7/6/2012 15:09:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		120.412%	0.028	5.351
%RSD		25.853	23.190	3.505
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		19.730	8.166	0.319
%RSD		8.499	44.670	139.000
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	4.391	9.904
%RSD		± 0.000	52.560	79.100
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 98.374%	87.240%	0.012
%RSD		± 10.961	0.999	755.400
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.033	-0.009	0.824
%RSD		564.100	122.800	98.480
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.085	4.244	0.016
%RSD		3.374	13.220	32.300
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.049	0.052	0.053
%RSD		26.270	35.310	143.700
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.144%	0.070	-0.029
%RSD		1.076	64.940	105.700
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.024	0.060	-0.035
%RSD		153.400	27.600	49.640
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.009	0.756
%RSD		0.000	16.950	190.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.015	85.447%	-0.024
%RSD		102.600	0.887	107.700
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.069	0.002	0.000
%RSD		16.260	172.600	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.466%	0.285	0.329
%RSD		0.854	12.910	9.100
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.022	0.000	
%RSD		9.443	0.000	

ICSA 7/6/2012 15:14:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		90.258%	0.065	3.455
%RSD		29.022	4.324	1.622
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		52070.000	45350.000	51090.000
%RSD		0.960	1.230	0.832
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	49640.000	52050.000
%RSD		0.000	1.111	0.834
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		88.112%	91.454%	1026.000
%RSD		14.444	2.246	1.164
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.079	0.618	1.580
%RSD		247.700	5.017	44.710
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.492	46570.000	0.090
%RSD		2.417	0.715	5.448
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.566	0.810	2.079
%RSD		4.330	6.097	6.981
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.037%	0.276	-0.273
%RSD		2.305	41.300	13.980
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.086	0.327	1010.000
%RSD		82.240	0.845	0.701
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.047	73.820
%RSD		0.000	4.190	11.360
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.269	89.433%	0.203
%RSD		9.054	2.149	11.000
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.177	0.136	0.000
%RSD		12.660	35.900	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		81.704%	0.108	0.159
%RSD		2.362	13.100	8.828
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.180	0.000	
%RSD		2.369	0.000	

ICSAB 7/6/2012 15:20:33 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.325%	107.436%	103.000%
%RSD		32.456	3.229	2.644
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		105.461%	91.617%	100.990%
%RSD		0.417	0.665	0.821
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	100.020%	105.094%
%RSD		0.000	1.554	0.728
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		81.825%	99.271%	101.785%
%RSD		16.594	2.412	0.466
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		98.873%	99.979%	17.180
%RSD		0.568	0.258	11.910
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		95.602%	93.631%	99.721%
%RSD		2.658	0.477	0.537
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		99.645%	98.442%	103.171%
%RSD		0.332	0.712	0.757
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		94.006%	96.937%	-0.873
%RSD		2.275	0.879	8.396
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		99.289%	95.980%	101.732%
%RSD		1.340	0.474	0.350
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.684%	97.350
%RSD		0.000	0.229	38.250
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		93.989%	94.860%	97.615%
%RSD		0.475	2.183	0.731
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		98.486%	100.445%	0.000
%RSD		0.501	0.885	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		87.203%	99.463%	101.876%
%RSD		2.529	0.505	0.283
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		97.032%	0.000	
%RSD		0.437	0.000	

CCV 7/6/2012 15:26:46 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.140%	105.541%	103.235%
%RSD		35.500	4.245	2.764
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		103.411%	89.255%	97.772%
%RSD		0.443	0.266	0.786
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	97.944%	102.250%
%RSD		0.000	1.447	0.683
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		86.268%	105.538%	98.609%
%RSD		17.537	1.978	3.472
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		97.492%	99.083%	15.230
%RSD		0.561	0.967	3.641
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		102.141%	91.303%	99.632%
%RSD		2.517	0.525	0.150
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		99.946%	100.985%	102.263%
%RSD		0.482	0.044	0.700
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		97.126%	96.922%	-0.394
%RSD		1.322	0.486	24.680
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.467%	97.055%	107.429%
%RSD		1.887	0.568	0.899
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.848%	55.630
%RSD		0.000	0.791	64.720
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		95.433%	98.081%	95.341%
%RSD		0.902	1.508	0.351
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		95.922%	97.262%	0.000
%RSD		0.391	0.786	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.962%	98.535%	96.482%
%RSD		1.191	0.433	0.744
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		91.548%	0.000	
%RSD		0.960	0.000	

CCB 7/6/2012 15:33:16 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		89.522%	0.016	2.930
%RSD		26.953	53.870	5.754
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		26.930	10.550	1.170
%RSD		8.470	21.240	8.461
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	2.147	15.600
%RSD		±0.000	131.400	31.620
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±89.842%	91.198%	0.064
%RSD		±12.567	1.074	273.400
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.059	-0.001	1.061
%RSD		163.700	530.700	26.010
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.098	5.506	0.018
%RSD		15.200	13.970	17.850
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.058	0.088	0.181
%RSD		86.070	22.390	115.500
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		88.505%	0.004	0.053
%RSD		0.595	1234.000	56.150
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.032	0.082	1.499
%RSD		90.080	17.780	8.101
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.014	-0.339
%RSD		0.000	19.580	169.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.017	88.587%	-0.014
%RSD		59.460	0.949	85.900
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.079	0.031	0.000
%RSD		10.750	94.300	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		84.185%	0.473	0.400
%RSD		0.963	10.890	8.673
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.027	0.000	
%RSD		9.072	0.000	

240-12160 -f-8-c, 7/6/2012 15:38:59 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		28.708%	-0.001	M 600.400
%RSD		54.608	1535.000	M 10.610
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 627400.000	M 138500.000	35.290
%RSD		TM 2.293	M 1.603	8.745
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4744.000	TM 569700.000
%RSD		T 0.000	T 4.592	TM 0.723
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 63.346%	109.253%	0.450
%RSD		T 27.972	4.270	44.650
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.000	0.525	1.793
%RSD		129600.000	6.883	15.930
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3701.000	T 2606.000	1.570
%RSD		TM 5.861	T 6.643	2.535
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		7.356	0.557	1.739
%RSD		3.170	17.030	10.750
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		90.611%	2.812	0.225
%RSD		2.974	5.044	27.980
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.171	M 872.600	2.212
%RSD		82.360	M 0.440	3.856
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.000	-0.399
%RSD		0.000	1068.000	508.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.005	95.913%	0.085
%RSD		106.900	2.940	28.720
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.049	196.900	0.000
%RSD		38.330	0.630	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		92.580%	0.109	0.136
%RSD		2.570	7.625	11.720
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.056	0.000	
%RSD		7.452	0.000	

240-12160 -f-9-c, 7/6/2012 15:44:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		60.574%	0.009	M 865.500
%RSD		34.597	77.750	M 8.272
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 74790.000	56190.000	38.590
%RSD		T 0.698	1.351	7.754
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 1686.000	TM 170400.000
%RSD		T 0.000	T 5.030	TM 0.414
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 73.626%	96.510%	0.401
%RSD		T 23.802	1.096	67.290
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.490	0.201	-0.099
%RSD		27.290	17.390	360.500
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 241.900	T 13460.000	0.212
%RSD		T 2.137	T 0.792	6.280
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.261	0.707	17.260
%RSD		3.026	3.627	2.187
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		87.480%	47.050	0.237
%RSD		1.376	0.730	2.599
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.144	M 251.300	1.781
%RSD		138.800	M 0.693	2.801
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.009	0.075
%RSD		0.000	34.210	1116.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.009	88.382%	0.266
%RSD		85.270	1.754	15.740
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.088	M 362.200	0.000
%RSD		7.742	M 1.087	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.687%	0.019	0.113
%RSD		1.359	50.390	11.590
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.142	0.000	
%RSD		3.468	0.000	

240-12160 -f-10-c, 7/6/2012 15:50:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		60.672%	0.007	M 863.000
%RSD		36.568	154.900	M 9.046
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 74200.000	55910.000	10.080
%RSD		T 0.694	0.708	10.520
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 1684.000	TM 164100.000
%RSD		T 0.000	T 6.472	TM 6.549
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 73.843%	95.140%	0.435
%RSD		T 24.348	2.053	56.060
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.288	0.185	0.016
%RSD		62.170	26.670	1634.000
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 242.200	T 13830.000	0.212
%RSD		T 2.393	T 0.306	7.327
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.167	0.577	13.680
%RSD		3.995	16.390	3.222
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.917%	48.940	0.256
%RSD		0.793	1.308	20.070
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.029	M 250.500	1.604
%RSD		251.600	M 1.533	5.988
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	-0.414
%RSD		0.000	44.620	515.600
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.000	87.503%	0.089
%RSD		2565.000	1.580	25.120
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.029	M 367.500	0.000
%RSD		22.130	M 0.861	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.525%	-0.037	0.038
%RSD		1.715	7.318	13.670
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.087	0.000	
%RSD		1.325	0.000	

240-12160 -f-11-c, 7/6/2012 15:56:24 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		48.555%	0.032	M 403.300
%RSD		39.906	82.260	M 6.394
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 314400.000	81200.000	12.570
%RSD		TM 0.347	0.759	9.586
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	529.100	TM 215800.000
%RSD		T 0.000	5.043	TM 6.468
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 68.710%	96.480%	0.489
%RSD		T 26.414	1.585	67.740
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.574	0.184	-0.468
%RSD		34.020	13.810	65.780
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1248.000	T 15350.000	0.809
%RSD		TM 11.020	T 0.952	4.220
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		182.300	0.524	1.875
%RSD		0.570	14.180	3.391
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		84.092%	49.920	0.016
%RSD		2.470	0.519	473.200
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.211	M 384.100	0.290
%RSD		43.320	M 0.331	26.410
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.001	-0.321
%RSD		0.000	407.700	161.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.008	87.729%	0.062
%RSD		26.780	1.376	13.910
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.035	M 224.400	0.000
%RSD		21.330	M 0.450	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.807%	-0.067	0.019
%RSD		2.075	25.700	16.790
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.090	0.000	
%RSD		2.894	0.000	

240-12780 -b-1-b, 7/6/2012 16:02:07 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		77.162%	0.006	53.550
%RSD		32.620	66.090	2.134
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		±62880.000	18570.000	91.180
%RSD		±0.416	1.881	9.885
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	±4571.000	91220.000
%RSD		±0.000	±0.855	0.273
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±84.413%	93.169%	1.609
%RSD		±15.455	0.719	47.180
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.492	0.428	2.044
%RSD		29.070	8.759	22.300
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		6.360	133.700	0.166
%RSD		1.924	2.644	12.700
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.927	0.823	2.954
%RSD		11.860	5.336	9.018
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.266%	0.792	0.260
%RSD		1.175	6.956	20.610
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.473	183.600	-0.297
%RSD		25.940	0.283	10.290
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.001	-0.443
%RSD		0.000	352.400	280.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.008	86.365%	0.147
%RSD		103.000	1.298	22.230
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.084	43.890	0.000
%RSD		11.840	1.624	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		84.554%	-0.105	-0.005
%RSD		1.198	9.016	60.600
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.188	0.000	
%RSD		2.828	0.000	

240-12780 -b-2-b, 7/6/2012 16:07:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.682%	-0.002	75.000
%RSD		29.343	685.100	9.979
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		39850.000	13950.000	4.636
%RSD		0.794	0.653	19.380
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	3103.000	110900.000
%RSD		0.000	6.463	7.225
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		75.891%	88.576%	0.040
%RSD		20.416	1.205	252.600
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.248	0.040	2.400
%RSD		34.550	46.030	19.680
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		8.003	-23.860	0.092
%RSD		9.634	18.240	8.342
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.709	0.482	1.468
%RSD		17.830	7.336	9.367
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.855%	0.297	0.251
%RSD		1.537	21.670	22.070
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.037	144.400	0.589
%RSD		134.400	0.192	9.336
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	-0.919
%RSD		0.000	181.200	57.570
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.020	82.602%	0.044
%RSD		23.330	1.638	96.890
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.048	59.010	0.000
%RSD		46.920	0.215	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		81.759%	-0.124	-0.008
%RSD		1.408	4.081	68.460
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.021	0.000	
%RSD		9.037	0.000	

240-12780 -b-3-b, 7/6/2012 16:13:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		75.397%	-0.001	74.550
%RSD		31.480	539.200	2.390
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		63740.000	18450.000	17.560
%RSD		0.991	0.909	8.406
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	3931.000	102400.000
%RSD		0.000	0.560	0.076
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		78.818%	90.830%	0.264
%RSD		14.847	2.423	33.330
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.427	0.358	2.980
%RSD		22.690	7.109	11.950
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.865	-8.644	0.275
%RSD		0.985	49.460	5.510
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		2.977	0.297	1.928
%RSD		2.382	13.250	6.314
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		83.112%	0.795	0.262
%RSD		1.425	21.650	9.567
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.131	134.900	-0.263
%RSD		32.360	1.133	13.140
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-0.565
%RSD		0.000	149.500	51.920
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.009	84.211%	0.075
%RSD		24.990	2.067	52.190
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.040	39.610	0.000
%RSD		66.410	0.965	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		83.661%	-0.042	-0.005
%RSD		1.699	59.490	44.010
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.037	0.000	
%RSD		15.500	0.000	

240-12780 -b-4-b, 7/6/2012 16:19:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		49.417%	-0.002	81.630
%RSD		37.420	351.700	1.280
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		160960.000	63530.000	11.760
%RSD		1.272	0.900	7.944
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		10.000	16028.000	430500.000
%RSD		0.000	2.674	0.552
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		169.398%	94.194%	0.144
%RSD		18.677	2.967	142.800
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.079	0.452	2.850
%RSD		95.160	6.080	11.860
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		4100.000	-87.350	4.986
%RSD		2.907	20.390	1.212
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		11.980	0.606	8.775
%RSD		3.208	8.480	3.062
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		81.474%	1.034	0.330
%RSD		1.953	7.493	25.780
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.111	404.300	-0.087
%RSD		85.140	0.781	10.180
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.006	-0.168
%RSD		0.000	63.810	235.300
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.011	86.845%	0.108
%RSD		2.923	2.138	16.990
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.344	31.900	0.000
%RSD		11.870	0.704	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.546%	-0.096	0.028
%RSD		2.890	5.745	37.660
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.052	0.000	
%RSD		3.839	0.000	

240-12780 -b-5-b, 7/6/2012 16:25:01 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		81.637%	-0.001	27.950
%RSD		27.066	531.200	11.990
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1832.000	202.900	18.210
%RSD		0.283	6.411	5.104
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	367.600	942.200
%RSD		±0.000	7.299	7.513
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±76.814%	81.272%	0.460
%RSD		±18.419	0.480	47.930
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.166	2.750	4.317
%RSD		117.900	3.728	7.714
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		4.511	113.600	0.043
%RSD		9.315	0.294	4.507
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.843	1.273	17.790
%RSD		13.430	5.947	1.872
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		77.200%	-0.078	0.264
%RSD		1.066	65.740	14.740
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.021	5.256	-0.262
%RSD		149.700	3.787	11.160
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.003	55.250
%RSD		0.000	49.390	57.180
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		41.240	78.997%	0.049
%RSD		0.846	0.452	44.420
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.106	0.874	0.000
%RSD		5.266	14.810	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		78.034%	-0.108	-0.014
%RSD		0.304	2.122	7.975
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.547	0.000	
%RSD		0.368	0.000	

240-12780 -b-6-b, 7/6/2012 16:30:47 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.446%	-0.006	81.430
%RSD		29.611	184.800	11.270
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		33870.000	16260.000	33.840
%RSD		0.997	0.937	7.778
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	3312.000	80110.000
%RSD		0.000	7.323	7.688
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		73.674%	85.061%	0.197
%RSD		19.960	1.863	94.460
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.301	0.215	3.229
%RSD		41.350	7.204	4.196
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		188.600	6.246	0.517
%RSD		7.568	49.920	6.382
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.032	2.062	2.948
%RSD		8.359	98.250	8.684
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		77.605%	0.339	0.337
%RSD		1.137	31.670	29.530
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.992	166.700	1.340
%RSD		37.100	0.741	6.766
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	0.050
%RSD		0.000	55.840	541.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.040	79.772%	0.140
%RSD		54.000	1.092	29.840
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.073	70.450	0.000
%RSD		13.560	1.466	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.401%	-0.093	-0.016
%RSD		1.027	7.226	25.320
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.038	0.000	
%RSD		6.217	0.000	

CCV 7/6/2012 16:36:29 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		73.662%	117.289%	110.100%
%RSD		30.129	5.058	10.710
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		103.076%	89.310%	98.472%
%RSD		0.166	0.488	2.771
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	101.320%	106.632%
%RSD		0.000	7.116	7.580
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		74.424%	87.820%	94.226%
%RSD		20.425	1.376	2.375
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		95.458%	97.121%	15.010
%RSD		0.684	0.140	11.230
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		106.450%	91.232%	97.709%
%RSD		8.864	0.361	0.045
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		97.029%	98.730%	101.745%
%RSD		0.119	0.739	0.195
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		80.658%	96.515%	-0.374
%RSD		1.395	0.890	51.310
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.490%	97.975%	99.488%
%RSD		1.984	0.400	0.745
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	97.347%	63.460
%RSD		0.000	0.161	91.050
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		97.888%	83.230%	97.163%
%RSD		1.614	1.637	0.445
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		96.528%	96.469%	0.000
%RSD		0.750	0.599	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		82.514%	98.708%	96.530%
%RSD		1.781	0.533	0.269
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		94.498%	0.000	
%RSD		0.391	0.000	

CCB 7/6/2012 16:42:24 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		94.617%	0.027	2.320
%RSD		25.215	43.390	5.182
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		27.710	10.070	0.793
%RSD		9.870	17.440	150.600
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	9.605	41.890
%RSD		0.000	24.600	7.928
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		181.509%	78.587%	-0.012
%RSD		110.984	0.766	482.100
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.218	0.096	0.472
%RSD		49.170	22.010	52.320
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.227	5.032	0.023
%RSD		3.688	9.191	36.760
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.031	0.067	0.236
%RSD		133.800	42.640	34.040
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		75.201%	0.003	-0.015
%RSD		1.088	605.100	351.300
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.093	0.087	0.061
%RSD		62.950	22.320	129.300
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.015	-0.561
%RSD		0.000	28.600	56.930
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.031	77.848%	-0.016
%RSD		15.130	1.166	108.300
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.064	0.035	0.000
%RSD		32.180	197.500	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		76.148%	0.274	0.279
%RSD		1.028	18.170	9.180
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.029	0.000	
%RSD		0.992	0.000	

240-12780 -b-7-b, 7/6/2012 16:48:15 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		76.076%	-0.006	26.810
%RSD		31.700	60.500	10.480
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 112000.000</u>	34910.000	4.883
%RSD		<u>TM 1.039</u>	0.884	17.090
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>TM 0.000</u>	<u>TM 3247.000</u>	<u>TM 212100.000</u>
%RSD		<u>TM 0.000</u>	<u>TM 5.635</u>	<u>TM 6.450</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>TM 76.196%</u>	84.760%	0.076
%RSD		<u>TM 21.193</u>	1.281	184.700
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.059	0.130	3.028
%RSD		97.700	16.370	18.660
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 872.200</u>	254.100	4.347
%RSD		<u>TM 8.933</u>	2.845	2.621
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		4.051	0.404	3.586
%RSD		4.219	13.260	3.189
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		76.223%	3.947	0.258
%RSD		2.109	1.564	18.840
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.067	<u>M 276.400</u>	0.366
%RSD		39.030	<u>M 0.668</u>	29.490
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.005	-0.518
%RSD		0.000	44.110	177.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.014	79.708%	0.148
%RSD		35.750	1.386	21.040
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.133	127.400	0.000
%RSD		30.700	0.686	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		79.927%	0.008	0.084
%RSD		1.866	282.300	15.250
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.028	0.000	
%RSD		0.479	0.000	

240-12780 -b-8-b, 7/6/2012 16:53:59 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		80.051%	-0.000	82.470
%RSD		26.956	904.600	9.171
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>40550.000</u>	19090.000	91.160
%RSD		<u>0.531</u>	1.129	6.258
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		<u>0.000</u>	<u>3907.000</u>	<u>99890.000</u>
%RSD		<u>0.000</u>	<u>6.964</u>	<u>7.206</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>74.478%</u>	81.944%	1.552
%RSD		<u>18.848</u>	1.709	76.640
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.234	5.068	3.597
%RSD		141.100	0.889	26.240
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		5.542	158.300	0.254
%RSD		10.300	1.007	3.973
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		1.153	0.692	2.508
%RSD		6.349	10.210	6.464
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		75.843%	0.988	0.306
%RSD		0.934	7.219	24.660
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.378	149.600	-0.252
%RSD		35.710	0.951	7.858
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.000	-0.395
%RSD		0.000	388.800	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.002	77.977%	0.044
%RSD		424.400	0.812	41.940
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.051	51.840	0.000
%RSD		21.640	2.436	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		78.362%	-0.080	0.015
%RSD		1.051	5.893	28.260
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.213	0.000	
%RSD		4.225	0.000	

240-12864 -a-2-a, 7/6/2012 16:59:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		50.042%	0.029	M 898.000
%RSD		42.249	14.760	M 5.711
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 175500.000	M 245200.000	161.600
%RSD		TM 0.612	M 1.163	5.508
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 7268.000	TM 292100.000
%RSD		T 0.000	T 5.521	TM 0.393
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 68.865%	100.492%	1.930
%RSD		T 27.614	1.745	6.834
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.531	0.822	6.760
%RSD		38.300	6.566	4.201
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3631.000	1242.000	4.139
%RSD		TM 11.680	0.531	1.744
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		5.491	0.779	5.843
%RSD		3.005	16.440	1.176
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		86.413%	1.636	0.352
%RSD		2.437	4.471	3.176
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.084	TM 3213.000	0.158
%RSD		50.390	TM 0.803	12.480
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-1.132
%RSD		0.000	182.200	72.240
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		-0.001	90.069%	0.321
%RSD		394.900	2.881	10.190
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.044	13.050	0.000
%RSD		37.870	0.917	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		89.043%	-0.120	-0.010
%RSD		3.354	0.578	63.760
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.233	0.000	
%RSD		3.327	0.000	

240-12864 -a-3-a, 7/6/2012 17:05:23 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		47.522%	0.011	M 523.600
%RSD		44.343	79.890	M 5.566
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 131600.000	M 179800.000	65.260
%RSD		TM 0.940	M 0.574	1.071
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		±0.000	± 6151.000	TM 229800.000
%RSD		±0.000	±5.017	TM 6.751
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±68.174%	101.310%	0.789
%RSD		± 27.423	1.598	44.520
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.295	1.458	6.694
%RSD		63.240	2.687	10.730
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2407.000	778.500	2.638
%RSD		TM 11.250	2.158	0.619
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		3.777	0.353	2.935
%RSD		2.761	17.620	5.880
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		85.106%	2.958	0.331
%RSD		2.435	4.882	15.140
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.061	TM 2030.000	1.371
%RSD		44.160	TM 0.755	1.782
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.001	-0.605
%RSD		0.000	396.300	86.680
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.010	89.459%	0.144
%RSD		89.030	2.094	7.413
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.033	12.690	0.000
%RSD		16.670	1.801	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		88.513%	-0.109	-0.013
%RSD		1.536	12.060	64.680
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.060	0.000	
%RSD		4.145	0.000	

240-12864 -a-4-a, 7/6/2012 17:11:09 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		55.953%	0.027	M 535.700
%RSD		41.176	50.130	M 7.231
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 132500.000	M 181700.000	67.770
%RSD		TM 1.467	M 0.816	2.892
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 6223.000	TM 240000.000
%RSD		T 0.000	T 5.996	TM 0.571
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 71.927%	97.221%	0.908
%RSD		T 26.602	2.189	11.930
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.297	1.518	7.715
%RSD		50.950	0.673	3.610
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2414.000	827.500	2.641
%RSD		TM 11.520	1.595	0.140
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		3.775	0.442	5.689
%RSD		5.068	8.175	4.566
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		82.164%	3.113	0.311
%RSD		0.919	3.219	7.593
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		-0.017	TM 2080.000	1.458
%RSD		286.300	TM 0.426	9.012
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.000	-1.165
%RSD		0.000	413.400	54.340
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.007	86.262%	0.130
%RSD		63.500	1.826	14.310
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.029	13.180	0.000
%RSD		37.710	2.879	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		85.576%	-0.136	-0.039
%RSD		1.400	8.059	7.865
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.074	0.000	
%RSD		7.276	0.000	

Ics 240-49355/2-a, 7/6/2012 17:16:52 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		100.444%	M 1135.000	101.700
%RSD		23.610	M 3.539	1.632
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8572.000	8577.000	M 9450.000
%RSD		1.176	1.269	M 0.579
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 9325.000	9949.000
%RSD		0.000	T 0.675	0.635
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 81.431%	74.039%	91.170
%RSD		T 10.387	0.659	1.077
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 891.000	M 916.600	132.400
%RSD		M 0.481	M 0.170	4.474
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 967.900	T 8752.000	M 920.200
%RSD		T 0.809	T 0.139	M 0.331
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 930.200	M 945.700	M 1035.000
%RSD		M 0.504	M 0.282	M 0.559
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		70.081%	M 904.200	-3.750
%RSD		0.550	M 0.452	9.968
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 969.500	M 896.600	90.040
%RSD		M 1.381	M 0.534	1.500
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	94.300	395.400
%RSD		0.000	0.887	18.290
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 908.700	75.281%	91.960
%RSD		M 0.590	0.607	0.750
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		93.770	M 917.300	0.000
%RSD		1.390	M 1.256	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		74.080%	89.730	TM 264.400
%RSD		0.434	0.499	TM 0.430
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1041.000	0.000	
%RSD		TM 0.702	0.000	

240-12676 -b-7-a, 7/6/2012 17:24:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		71.505%	0.057	M 315.900
%RSD		35.886	14.870	M 3.217
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 87180.000	M 128100.000	5.205
%RSD		T 0.645	M 0.829	2.897
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 4028.000	TM 280800.000
%RSD		T 0.000	T 1.571	TM 0.327
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 80.517%	86.043%	0.105
%RSD		T 16.689	1.927	89.590
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-0.124	0.145	5.659
%RSD		157.900	12.130	8.380
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 140.800	T 4476.000	0.093
%RSD		T 5.361	T 0.470	13.730
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.459	0.782	7.837
%RSD		11.800	9.109	0.630
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		75.701%	1.626	0.333
%RSD		1.855	7.677	22.420
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.602	TM 3469.000	11.150
%RSD		9.344	TM 0.266	1.132
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.001	-0.560
%RSD		0.000	146.500	252.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.009	80.704%	0.361
%RSD		126.400	1.765	2.797
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.122	23.310	0.000
%RSD		25.190	1.761	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.691%	0.282	0.354
%RSD		2.055	16.080	7.900
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.155	0.000	
%RSD		5.359	0.000	

240-12676 -b-7-b ms, 7/6/2012 17:29:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		64.749%	M 990.700	M 404.500
%RSD		35.852	M 2.965	M 9.859
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 91200.000	M 128700.000	M 9186.000
%RSD		T 0.998	M 0.969	M 0.876
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 13670.000	TM 297200.000
%RSD		T 0.000	T 5.842	TM 7.317
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 73.577%	85.667%	94.160
%RSD		T 23.346	2.136	3.510
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 917.900	M 918.100	135.100
%RSD		M 0.654	M 0.872	1.837
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1152.000	T 13040.000	M 908.700
%RSD		TM 10.070	T 1.010	M 1.516
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 882.000	M 879.100	M 915.100
%RSD		M 1.463	M 1.764	M 1.795
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		75.479%	M 943.400	-4.404
%RSD		2.939	M 1.529	1.058
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 976.100	TM 4444.000	108.300
%RSD		M 1.451	TM 0.804	1.520
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	87.910	433.500
%RSD		0.000	0.879	8.962
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 883.000	81.056%	92.790
%RSD		M 0.961	1.900	1.402
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		94.210	M 971.500	0.000
%RSD		0.557	M 0.710	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		81.391%	92.330	TM 252.200
%RSD		1.987	0.582	TM 0.473
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 964.400	0.000	
%RSD		TM 0.657	0.000	

240-12676 -b-7-c msd, 7/6/2012 17:37:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		68.511%	M 1005.000	M 402.100
%RSD		34.737	M 3.773	M 10.230
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		T 92260.000	M 129700.000	M 9393.000
%RSD		T 1.135	M 0.903	M 1.150
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 13840.000	TM 301100.000
%RSD		T 0.000	T 5.695	TM 7.826
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 76.552%	85.012%	94.720
%RSD		T 23.253	2.074	6.393
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 929.800	M 931.000	142.800
%RSD		M 0.931	M 0.685	5.532
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 1165.000	T 13090.000	M 925.800
%RSD		TM 9.702	T 0.652	M 0.402
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 898.100	M 889.000	M 926.400
%RSD		M 0.478	M 0.093	M 0.459
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		75.189%	M 955.600	-4.452
%RSD		1.441	M 0.227	9.748
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 995.000	TM 4486.000	109.000
%RSD		M 1.216	TM 0.301	0.871
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	87.490	473.700
%RSD		0.000	1.091	2.356
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 888.700	81.139%	93.310
%RSD		M 0.486	2.083	0.247
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		95.100	M 989.800	0.000
%RSD		0.160	M 0.322	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.511%	94.030	TM 258.000
%RSD		1.744	0.675	TM 0.583
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 980.700	0.000	
%RSD		TM 0.562	0.000	

240-12721 -b-1-a, 7/6/2012 17:44:47 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		96.888%	0.041	73.190
%RSD		25.263	19.610	1.936
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 119500.000</u>	12740.000	32.650
%RSD		<u>TM 0.666</u>	0.524	3.915
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	<u>TM 3747.000</u>	67720.000
%RSD		0.000	<u>TM 0.858</u>	0.471
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>TM 84.260%</u>	74.733%	0.336
%RSD		<u>TM 10.873</u>	0.539	0.682
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		-19.580	<u>M 446.900</u>	66.850
%RSD		4.192	<u>M 0.217</u>	3.302
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.816	20.530	0.079
%RSD		2.762	17.060	23.740
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.628	0.415	3.290
%RSD		11.500	3.575	11.950
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		69.917%	1.228	0.263
%RSD		1.145	7.053	14.250
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.780	101.900	0.150
%RSD		16.000	2.107	18.090
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.004	-0.519
%RSD		0.000	81.310	191.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.042	73.829%	0.102
%RSD		58.340	0.493	48.020
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.239	41.460	0.000
%RSD		7.389	1.036	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		73.097%	0.442	0.526
%RSD		0.747	9.427	3.569
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.087	0.000	
%RSD		0.344	0.000	

CCV 7/6/2012 17:50:39 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		105.091%	115.998%	99.104%
%RSD		25.724	5.066	2.519
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		98.295%	85.584%	98.082%
%RSD		0.314	0.191	1.118
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	96.381%	100.047%
%RSD		0.000	0.650	0.459
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		85.734%	76.900%	96.219%
%RSD		11.316	0.966	3.639
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		95.018%	95.343%	13.780
%RSD		0.104	0.744	5.607
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		99.032%	89.986%	96.309%
%RSD		0.682	0.421	0.708
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		95.002%	95.444%	100.480%
%RSD		1.429	0.967	1.233
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		71.428%	96.021%	-0.646
%RSD		1.236	0.557	16.370
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		100.015%	99.346%	97.501%
%RSD		0.864	0.543	0.792
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	94.368%	69.680
%RSD		0.000	0.631	16.060
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		94.992%	75.260%	96.790%
%RSD		1.364	0.612	0.896
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		97.004%	98.244%	0.000
%RSD		0.424	0.894	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		74.720%	97.671%	97.011%
%RSD		1.870	0.264	0.570
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		95.642%	0.000	
%RSD		0.646	0.000	

CCB 7/6/2012 17:57:12 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		124.593%	0.045	2.582
%RSD		22.892	22.380	6.859
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		22.050	13.150	0.652
%RSD		2.610	42.710	56.950
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	7.811	15.530
%RSD		0.000	25.610	8.307
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 89.377%	73.166%	-0.006
%RSD		± 9.103	1.113	937.500
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.106	0.096	0.843
%RSD		133.100	5.171	78.570
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.129	4.582	0.018
%RSD		13.420	8.456	43.430
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.023	0.046	0.069
%RSD		171.700	48.230	124.400
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		70.689%	0.191	0.012
%RSD		0.502	18.410	734.800
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.082	0.067	-0.001
%RSD		125.200	17.250	4705.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.008	-0.395
%RSD		0.000	53.140	0.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.009	74.777%	-0.040
%RSD		86.290	0.563	73.350
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.091	0.056	0.000
%RSD		21.240	69.540	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		72.965%	0.369	0.415
%RSD		0.207	15.680	6.228
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.036	0.000	
%RSD		6.212	0.000	

240-12721 -b-2-a, 7/6/2012 18:02:55 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		106.087%	0.048	81.410
%RSD		25.173	34.380	2.199
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 168000.000</u>	18210.000	41.830
%RSD		<u>TM 0.882</u>	1.777	5.898
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	<u>T 6610.000</u>	<u>M 99930.000</u>
%RSD		0.000	<u>T 1.147</u>	<u>M 0.389</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 84.966%</u>	75.061%	0.501
%RSD		<u>T 10.487</u>	1.626	91.110
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		33.060	<u>TM 2729.000</u>	-107.000
%RSD		15.380	<u>TM 0.887</u>	15.840
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		14.030	36.360	0.145
%RSD		0.804	11.160	12.100
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		6.718	0.574	4.467
%RSD		1.441	15.920	3.284
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		68.606%	1.562	0.374
%RSD		1.925	2.012	23.240
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.789	129.300	11.640
%RSD		28.660	0.872	3.962
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.003	-0.504
%RSD		0.000	67.330	703.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.032	72.843%	0.200
%RSD		59.640	2.275	7.885
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.171	53.000	0.000
%RSD		8.673	0.578	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		73.316%	0.114	0.194
%RSD		1.751	14.270	0.148
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.165	0.000	
%RSD		1.052	0.000	

mb 240-49412/1 -a, 7/6/2012 18:08:38 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		124.588%	0.002	3.185
%RSD		20.694	457.900	9.852
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		45.120	28.280	5.822
%RSD		1.041	16.780	27.200
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	21.300	273.800
%RSD		0.000	10.090	2.678
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		88.896%	71.702%	0.102
%RSD		8.110	0.346	218.200
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.104	0.475	3.236
%RSD		36.470	16.380	5.048
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.585	42.220	0.011
%RSD		1.583	1.064	70.210
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.421	0.527	4.158
%RSD		26.670	3.540	2.929
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		67.021%	0.113	0.138
%RSD		0.686	97.480	12.670
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.014	0.502	-0.231
%RSD		740.000	5.790	19.410
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	-0.002	-0.598
%RSD		0.000	91.590	58.650
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.013	71.825%	28.460
%RSD		21.630	0.596	1.075
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.035	0.716	0.000
%RSD		61.490	13.220	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		71.962%	0.167	0.262
%RSD		0.931	11.000	3.743
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.154	0.000	
%RSD		7.744	0.000	

Ics 240-49412/3-a, 7/6/2012 18:14:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		116.807%	M 1124.000	95.610
%RSD		21.834	M 4.403	2.740
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8970.000	8873.000	M 9928.000
%RSD		1.395	1.789	M 1.057
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 9534.000	9996.000
%RSD		T 0.000	T 0.733	0.562
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 85.375%	74.065%	96.620
%RSD		T 9.404	0.360	3.686
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 943.400	M 971.900	145.000
%RSD		M 0.468	M 0.663	1.056
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 985.100	T 9252.000	TM 1031.000
%RSD		T 0.751	T 0.573	TM 7.723
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 966.700	M 976.300	M 887.100
%RSD		M 0.276	M 0.400	M 0.275
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		67.170%	M 841.200	-3.673
%RSD		2.145	M 0.595	2.281
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 796.100	M 970.500	96.680
%RSD		M 1.148	M 0.543	0.400
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.080	382.200
%RSD		0.000	0.709	5.699
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 850.700	74.316%	114.700
%RSD		M 0.859	0.505	0.628
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		89.220	M 967.200	0.000
%RSD		0.659	M 0.646	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		75.193%	90.790	TM 265.600
%RSD		0.945	0.756	TM 0.311
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1058.000	0.000	
%RSD		TM 0.448	0.000	

240-12752 -h-3-a, 7/6/2012 18:21:07 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		79.968%	4.727	38.280
%RSD		26.810	5.898	10.400
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		656.600	32760.000	M 76470.000
%RSD		1.703	0.546	M 0.756
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 11920.000	M 130700.000
%RSD		0.000	T 6.305	M 7.172
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 74.170%	69.203%	M 738.000
%RSD		T 18.295	1.873	M 0.493
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		136.200	120.300	16.110
%RSD		0.757	1.113	13.410
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3873.000	TM 180700.000	79.510
%RSD		TM 8.677	TM 1.107	1.246
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		183.400	163.500	M 509.400
%RSD		0.748	1.305	M 0.927
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		62.448%	83.400	0.353
%RSD		1.745	0.566	31.100
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		5.248	M 229.900	10.420
%RSD		11.250	M 0.431	2.752
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.193	-43.190
%RSD		0.000	0.942	11.970
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.062	69.838%	11.380
%RSD		13.460	1.884	1.214
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.905	M 893.000	0.000
%RSD		4.420	M 0.435	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		76.653%	3.933	1.605
%RSD		2.117	2.653	3.137
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		92.090	0.000	
%RSD		0.122	0.000	

240-12752 -h-3-d ms, 7/6/2012 18:26:53 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		65.576%	M 891.500	121.800
%RSD		31.091	M 4.380	11.010
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8859.000	50420.000	M 112800.000
%RSD		0.253	0.385	M 0.547
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 23270.000	M 194200.000
%RSD		T 0.000	T 5.524	M 7.355
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 69.169%	71.137%	M 1055.000
%RSD		T 20.839	2.713	M 0.598
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 1051.000	M 1045.000	145.200
%RSD		M 0.085	M 0.487	5.189
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 5554.000	TM 218200.000	M 967.300
%RSD		TM 8.927	TM 0.322	M 0.288
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 1053.000	M 980.800	M 1300.000
%RSD		M 0.713	M 0.132	M 1.055
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		64.130%	M 871.100	-2.844
%RSD		2.124	M 0.580	5.338
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 755.900	M 1262.000	102.400
%RSD		M 1.218	M 0.648	0.590
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	82.590	321.600
%RSD		0.000	0.771	9.993
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 793.400	72.196%	91.670
%RSD		M 0.694	2.006	0.535
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		27.210	M 1954.000	0.000
%RSD		0.604	M 0.331	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		78.549%	58.880	TM 239.300
%RSD		2.569	0.570	TM 0.528
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1032.000	0.000	
%RSD		TM 0.549	0.000	

240-12752 -h-3-e msd, 7/6/2012 18:33:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		58.678%	M 907.300	120.500
%RSD		29.963	M 5.145	8.840
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8970.000	48950.000	M 105600.000
%RSD		0.465	0.904	M 0.855
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 22820.000	M 205900.000
%RSD		T 0.000	T 5.651	M 6.674
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 63.761%	71.569%	M 1070.000
%RSD		T 20.411	2.326	M 1.584
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 1033.000	M 1031.000	151.800
%RSD		M 0.515	M 0.414	2.414
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 5248.000	TM 210600.000	M 958.800
%RSD		TM 8.464	TM 0.386	M 0.355
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 1051.000	M 980.800	M 1299.000
%RSD		M 0.307	M 0.699	M 0.458
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		64.677%	M 854.200	-3.091
%RSD		3.120	M 0.176	10.740
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 745.100	M 1250.000	101.900
%RSD		M 0.717	M 0.147	1.142
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	82.740	343.700
%RSD		0.000	0.518	43.480
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 782.000	72.645%	91.380
%RSD		M 0.198	2.258	0.147
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		27.540	M 1829.000	0.000
%RSD		0.693	M 0.279	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		79.257%	60.010	TM 236.000
%RSD		2.372	0.153	TM 0.405
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1013.000	0.000	
%RSD		TM 0.103	0.000	

mb 240-49915/1-a, 7/6/2012 18:41:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		100.608%	0.086	4.686
%RSD		21.972	13.310	1.977
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		49.240	31.320	20.560
%RSD		1.917	12.300	3.704
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		± 0.000	29.320	164.300
%RSD		± 0.000	7.942	2.283
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 87.348%	78.233%	0.546
%RSD		± 8.625	0.954	58.370
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.042	0.366	2.867
%RSD		522.700	10.620	8.136
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1.022	48.750	0.036
%RSD		0.489	0.635	8.979
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.362	0.504	8.460
%RSD		32.300	22.400	1.294
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		74.868%	0.382	0.070
%RSD		1.148	12.260	64.630
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.229	0.558	0.058
%RSD		18.260	5.855	115.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.004	-0.484
%RSD		0.000	93.300	412.100
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.014	78.758%	29.010
%RSD		87.980	0.645	0.310
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.071	1.127	0.000
%RSD		23.750	8.232	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		78.380%	0.401	0.677
%RSD		1.542	18.440	7.226
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.295	0.000	
%RSD		5.407	0.000	

Ics 240-49915/3-a, 7/6/2012 18:46:51 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		96.543%	M 991.200	84.350
%RSD		22.449	M 3.343	0.329
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		8684.000	8608.000	M 9405.000
%RSD		0.212	1.383	M 0.353
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 9125.000	9581.000
%RSD		T 0.000	T 0.540	0.612
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 84.770%	73.830%	93.650
%RSD		T 9.598	1.563	7.876
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 929.000	M 958.400	133.100
%RSD		M 0.299	M 0.124	7.893
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 958.600	T 9079.000	M 972.700
%RSD		T 0.819	T 0.260	M 0.678
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 961.700	M 968.000	M 866.500
%RSD		M 0.450	M 0.507	M 0.871
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		67.803%	M 826.900	-3.598
%RSD		1.589	M 0.729	6.315
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 767.900	M 933.600	95.510
%RSD		M 0.536	M 0.445	0.365
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.040	372.000
%RSD		0.000	0.705	47.140
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 827.600	75.522%	112.600
%RSD		M 1.272	2.096	0.878
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		85.680	M 931.700	0.000
%RSD		1.268	M 0.795	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		76.733%	89.150	TM 260.900
%RSD		1.674	0.042	TM 0.195
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1038.000	0.000	
%RSD		TM 0.624	0.000	

240-12915 -b-1-a, 7/6/2012 18:53:37 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		45.893%	2.263	60.630
%RSD		34.157	2.348	2.248
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3148.000	M 229700.000	M 35900.000
%RSD		0.324	M 0.515	M 0.502
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 7208.000	TM 914700.000
%RSD		0.000	T 2.695	TM 1.176
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		54.101%	63.394%	M 1102.000
%RSD		15.319	1.625	M 0.284
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		102.600	85.140	8.827
%RSD		0.480	0.182	24.240
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2385.000	TM 78560.000	39.390
%RSD		TM 2.062	TM 0.351	1.315
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		93.720	94.950	M 251.100
%RSD		0.079	1.080	M 0.713
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		54.387%	29.380	0.541
%RSD		2.324	1.713	21.910
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.057	TM 5118.000	24.540
%RSD		12.340	TM 0.434	1.262
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.180	-38.390
%RSD		0.000	9.964	54.730
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.914	64.762%	17.130
%RSD		6.179	2.755	0.624
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.803	M 377.300	0.000
%RSD		16.630	M 0.796	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		69.742%	2.986	1.850
%RSD		2.179	3.567	3.999
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		54.960	0.000	
%RSD		0.428	0.000	

SD 240-12915 -b-1-a@5, 7/6/2012 18:59:24 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		87.009%	0.755	14.320
%RSD		22.143	4.455	10.950
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		662.100	49560.000	M 7650.000
%RSD		0.681	0.746	M 0.521
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 1405.000	TM 160900.000
%RSD		0.000	T 7.853	TM 15.370
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 71.230%	65.517%	M 225.300
%RSD		T 16.230	1.100	M 4.278
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		21.040	17.870	1.272
%RSD		1.282	1.215	50.330
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 455.400	T 16340.000	8.509
%RSD		T 8.482	T 0.245	0.824
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		20.950	22.250	60.080
%RSD		2.621	0.863	1.517
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		60.837%	6.722	0.077
%RSD		1.029	2.233	22.600
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.774	M 879.000	4.501
%RSD		33.120	M 0.411	2.565
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.059	-7.337
%RSD		0.000	33.050	89.950
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.270	66.352%	3.577
%RSD		18.290	1.529	0.977
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.183	76.660	0.000
%RSD		9.724	2.376	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		69.183%	0.584	0.488
%RSD		0.585	3.751	2.677
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		12.490	0.000	
%RSD		0.308	0.000	

CCV 7/6/2012 19:05:08 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		91.388%	112.340%	92.702%
%RSD		24.585	3.988	1.504
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		98.073%	86.627%	98.014%
%RSD		0.373	0.776	1.692
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	96.012%	99.426%
%RSD		0.000	0.653	0.570
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		80.283%	75.037%	95.305%
%RSD		10.923	1.578	3.324
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		94.747%	95.947%	13.260
%RSD		0.664	0.448	13.620
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		100.250%	91.732%	97.026%
%RSD		0.857	0.408	0.238
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		95.454%	96.412%	100.104%
%RSD		0.229	0.235	0.691
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		70.229%	95.000%	-0.696
%RSD		1.407	0.274	22.570
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.853%	98.681%	99.008%
%RSD		1.136	0.969	1.092
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.366%	44.700
%RSD		0.000	0.581	52.750
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		96.363%	74.381%	97.241%
%RSD		0.747	1.552	0.716
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		96.650%	96.775%	0.000
%RSD		0.727	0.476	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		75.287%	98.973%	96.810%
%RSD		1.188	0.533	0.689
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		97.730%	0.000	
%RSD		0.287	0.000	

CCB 7/6/2012 19:11:16 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		109.324%	0.232	1.176
%RSD		21.228	12.020	13.180
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		26.170	19.110	3.701
%RSD		10.970	9.257	44.450
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	26.090	126.100
%RSD		0.000	3.317	8.488
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		± 82.733%	70.646%	0.106
%RSD		± 8.528	0.843	215.800
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.313	0.113	-1.190
%RSD		56.260	24.930	35.140
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.798	12.940	0.062
%RSD		3.808	12.240	15.820
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.087	0.102	0.033
%RSD		19.220	56.580	433.300
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		68.846%	0.161	0.073
%RSD		0.887	57.970	55.710
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.119	0.236	0.132
%RSD		37.090	9.585	48.190
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.018	-0.243
%RSD		0.000	32.150	342.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.079	71.979%	-0.008
%RSD		45.560	0.753	281.700
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.090	0.079	0.000
%RSD		28.660	64.780	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		72.653%	0.430	0.360
%RSD		0.887	22.270	10.940
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.069	0.000	
%RSD		3.237	0.000	

240-12915 -b-1-b ms, 7/6/2012 19:17:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		43.056%	M 894.500	140.800
%RSD		35.723	M 6.024	1.745
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		11390.000	M 263100.000	M 45220.000
%RSD		0.843	M 0.878	M 1.134
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 16460.000	TM 954700.000
%RSD		0.000	T 3.271	TM 0.542
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		53.000%	63.533%	M 1314.000
%RSD		16.822	1.399	M 0.499
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 1031.000	M 1023.000	146.800
%RSD		M 1.059	M 0.970	3.507
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3217.000	TM 85120.000	M 933.800
%RSD		TM 2.595	TM 0.550	M 0.870
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 919.600	M 911.300	M 1057.000
%RSD		M 0.670	M 0.617	M 0.669
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		55.594%	M 856.100	-3.291
%RSD		1.372	M 0.399	22.630
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 816.100	TM 5339.000	117.600
%RSD		M 0.585	TM 0.420	0.184
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	80.390	436.400
%RSD		0.000	0.502	57.110
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 806.200	65.908%	100.700
%RSD		M 0.659	1.579	0.292
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		41.450	M 1348.000	0.000
%RSD		0.254	M 1.015	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		70.749%	76.210	TM 249.600
%RSD		1.586	0.232	TM 0.492
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 1016.000	0.000	
%RSD		TM 0.169	0.000	

240-12915 -b-1-c msd, 7/6/2012 19:24:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		50.715%	M 820.400	120.000
%RSD		31.556	M 10.960	5.496
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		10330.000	M 166900.000	M 41110.000
%RSD		1.407	M 0.535	M 0.485
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 14150.000	TM 650600.000
%RSD		0.000	T 8.720	TM 7.918
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 56.599%	60.602%	M 1336.000
%RSD		T 9.966	2.000	M 1.354
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 945.100	M 936.500	117.500
%RSD		M 0.519	M 0.395	4.176
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2759.000	TM 80650.000	M 860.500
%RSD		TM 6.214	TM 0.122	M 0.479
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 864.600	M 861.500	M 1086.000
%RSD		M 0.535	M 1.230	M 0.704
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		52.873%	M 795.500	-3.314
%RSD		2.507	M 1.446	4.146
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		M 753.800	TM 7006.000	110.200
%RSD		M 1.720	TM 1.067	0.979
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	77.710	391.000
%RSD		0.000	1.144	14.030
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		M 761.300	62.297%	121.100
%RSD		M 0.702	2.494	0.562
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		41.360	M 1255.000	0.000
%RSD		1.133	M 0.323	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		67.280%	73.580	TM 237.100
%RSD		1.265	0.317	TM 0.490
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		TM 977.000	0.000	
%RSD		TM 0.159	0.000	

240-12915 -b-2-a, 7/6/2012 19:31:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		49.915%	1.987	53.990
%RSD		29.643	8.676	3.051
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1704.000	M 210600.000	M 32070.000
%RSD		0.991	M 1.318	M 0.989
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 6252.000	TM 821000.000
%RSD		0.000	T 9.295	TM 7.988
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 52.195%	56.983%	M 1085.000
%RSD		T 6.925	1.038	M 1.827
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		101.300	96.640	10.630
%RSD		0.670	0.503	11.190
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 2906.000	TM 78670.000	68.440
%RSD		TM 5.704	TM 0.351	1.248
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		96.670	129.400	M 257.500
%RSD		1.305	1.099	M 0.350
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		49.089%	30.250	0.457
%RSD		2.440	1.513	18.610
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.385	TM 5971.000	24.720
%RSD		13.840	TM 0.858	0.914
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.483	-32.890
%RSD		0.000	3.493	36.120
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.189	58.556%	24.840
%RSD		7.318	2.595	1.192
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.913	M 606.800	0.000
%RSD		2.531	M 0.856	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		64.092%	3.163	2.005
%RSD		1.857	2.904	2.375
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		75.090	0.000	
%RSD		0.289	0.000	

240-12915 -b-3-a, 7/6/2012 19:37:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		49.140%	2.039	59.860
%RSD		29.746	15.210	3.863
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		1155.000	<u>M 120500.000</u>	<u>M 35910.000</u>
%RSD		1.858	<u>M 0.673</u>	<u>M 1.287</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	<u>T 4425.000</u>	<u>TM 758700.000</u>
%RSD		0.000	<u>T 8.846</u>	<u>TM 7.533</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 49.541%</u>	54.922%	<u>M 1721.000</u>
%RSD		<u>T 6.419</u>	2.824	<u>M 1.791</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		165.000	149.200	20.660
%RSD		1.166	0.750	5.052
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 11800.000</u>	<u>TM 72940.000</u>	24.130
%RSD		<u>TM 6.074</u>	<u>TM 0.664</u>	0.794
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		65.440	<u>M 261.200</u>	<u>M 313.000</u>
%RSD		1.377	<u>M 1.003</u>	<u>M 0.840</u>
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		48.265%	28.130	0.478
%RSD		2.388	0.576	21.400
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.557	<u>M 1781.000</u>	12.890
%RSD		13.950	<u>M 0.583</u>	3.043
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.616	-23.080
%RSD		0.000	6.999	40.920
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.079	57.829%	14.770
%RSD		3.978	1.434	1.444
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.918	<u>M 436.000</u>	0.000
%RSD		7.156	<u>M 0.527</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		61.703%	5.113	1.343
%RSD		1.630	1.387	2.978
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		51.020	0.000	
%RSD		0.140	0.000	

240-12915 -b-4-a, 7/6/2012 19:42:45 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		50.656%	2.078	51.700
%RSD		29.881	15.520	4.296
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		3084.000	<u>M 194800.000</u>	<u>M 25810.000</u>
%RSD		0.303	<u>M 0.727</u>	<u>M 0.981</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	<u>T 4112.000</u>	<u>TM 755000.000</u>
%RSD		0.000	<u>T 8.806</u>	<u>TM 7.607</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 50.490%</u>	55.007%	<u>M 1008.000</u>
%RSD		<u>T 7.197</u>	2.137	<u>M 0.169</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		78.700	102.400	13.220
%RSD		0.655	1.284	16.320
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 2109.000</u>	<u>TM 78980.000</u>	34.640
%RSD		<u>TM 5.594</u>	<u>TM 0.951</u>	1.065
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		83.580	172.000	<u>M 334.600</u>
%RSD		1.136	0.687	<u>M 0.769</u>
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		47.310%	32.230	0.489
%RSD		2.340	0.519	18.350
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		3.239	<u>TM 12300.000</u>	22.800
%RSD		18.540	<u>TM 0.208</u>	1.155
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.269	-41.490
%RSD		0.000	8.139	21.990
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.361	56.823%	77.750
%RSD		4.250	1.905	0.895
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		1.208	<u>M 378.900</u>	0.000
%RSD		3.554	<u>M 0.441</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		61.642%	7.855	1.119
%RSD		1.555	1.287	1.901
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		166.500	0.000	
%RSD		0.222	0.000	

240-12915 -b-5-a, 7/6/2012 19:48:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		35.652%	1.844	69.080
%RSD		37.898	8.888	0.771
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		2410.000	M 300200.000	M 38570.000
%RSD		0.865	M 0.717	M 0.635
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 5537.000	TM 1344000.000
%RSD		0.000	T 4.868	TM 0.947
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		43.503%	54.424%	M 1228.000
%RSD		18.446	2.299	M 0.756
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		109.400	M 378.800	51.600
%RSD		1.720	M 0.755	6.814
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 4727.000	TM 251300.000	45.330
%RSD		TM 2.634	TM 0.239	1.416
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 207.900	M 650.100	M 405.900
%RSD		M 0.916	M 0.398	M 0.800
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		47.215%	49.060	0.637
%RSD		1.837	2.302	24.770
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		2.716	TM 8221.000	68.750
%RSD		8.582	TM 0.580	0.931
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.421	-29.500
%RSD		0.000	9.806	22.310
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		1.563	57.389%	76.280
%RSD		10.920	1.319	1.129
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		3.493	M 616.700	0.000
%RSD		3.111	M 0.315	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		61.386%	13.440	1.443
%RSD		1.837	0.573	0.865
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		122.800	0.000	
%RSD		0.276	0.000	

240-12856 -e-1-a, 7/6/2012 19:54:12 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		57.046%	3.159	37.390
%RSD		26.534	2.587	12.160
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		614.500	7948.000	<u>M 48340.000</u>
%RSD		0.709	1.359	<u>M 0.276</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	<u>T 29780.000</u>	7495.000
%RSD		0.000	<u>T 6.958</u>	7.004
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 63.509%</u>	67.886%	181.100
%RSD		<u>T 19.681</u>	1.796	2.265
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		<u>M 320.300</u>	146.200	18.620
%RSD		<u>M 0.331</u>	0.432	3.122
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>T 408.600</u>	<u>TM 352600.000</u>	25.780
%RSD		<u>T 8.608</u>	<u>TM 0.611</u>	0.855
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		117.500	<u>M 296.300</u>	<u>M 307.300</u>
%RSD		0.650	<u>M 0.654</u>	<u>M 1.102</u>
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		61.651%	<u>M 231.000</u>	0.406
%RSD		2.230	<u>M 1.465</u>	31.310
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		69.580	<u>M 349.300</u>	118.200
%RSD		1.667	<u>M 1.130</u>	1.188
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.893	-66.700
%RSD		0.000	0.657	11.670
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		2.539	68.460%	13.810
%RSD		2.533	2.435	2.133
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		11.380	<u>M 593.000</u>	0.000
%RSD		0.963	<u>M 0.361</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		75.500%	0.172	21.390
%RSD		1.619	4.637	0.480
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		<u>TM 402.800</u>	0.000	
%RSD		<u>TM 0.441</u>	0.000	

240-12856 -e-2-a, 7/6/2012 20:00:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		78.217%	9.463	20.100
%RSD		23.884	3.691	10.160
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		607.900	15110.000	<u>M 78010.000</u>
%RSD		1.124	1.792	<u>M 1.100</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	<u>T 11200.000</u>	19350.000
%RSD		0.000	<u>T 7.279</u>	8.284
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 72.745%</u>	72.641%	<u>M 303.000</u>
%RSD		<u>T 17.038</u>	1.603	<u>M 2.304</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		<u>M 341.500</u>	113.200	14.410
%RSD		<u>M 1.359</u>	1.505	5.621
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 2746.000</u>	<u>TM 110300.000</u>	72.550
%RSD		<u>TM 8.075</u>	<u>TM 0.788</u>	0.736
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		<u>M 329.300</u>	127.700	<u>M 1313.000</u>
%RSD		<u>M 1.164</u>	0.809	<u>M 1.007</u>
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		65.804%	61.220	1.170
%RSD		1.290	0.960	19.870
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		16.820	95.080	67.500
%RSD		3.196	1.207	0.690
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.519	-66.720
%RSD		0.000	2.124	37.680
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		14.120	70.580%	11.300
%RSD		1.376	1.659	3.245
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		3.643	<u>M 639.700</u>	0.000
%RSD		3.946	<u>M 0.133</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		86.885%	0.107	9.080
%RSD		1.775	13.150	0.302
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		87.490	0.000	
%RSD		0.311	0.000	

240-12856 -e-3-a, 7/6/2012 20:05:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		55.458%	10.540	23.190
%RSD		31.285	5.936	12.420
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		660.300	35940.000	M 117800.000
%RSD		0.276	0.437	M 0.492
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 11960.000	16530.000
%RSD		T 0.000	T 5.182	6.486
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 71.599%	76.263%	M 465.500
%RSD		T 21.423	2.534	M 1.458
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		M 231.500	179.000	26.040
%RSD		M 1.057	0.851	4.466
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3784.000	TM 363900.000	M 229.800
%RSD		TM 9.516	TM 0.807	M 1.135
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		M 416.800	M 274.500	M 896.200
%RSD		M 1.176	M 0.922	M 0.464
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		70.214%	165.600	1.046
%RSD		2.130	0.351	17.680
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		22.590	128.600	92.600
%RSD		1.504	0.152	1.006
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.110	-80.940
%RSD		0.000	4.087	20.380
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		9.415	75.930%	13.180
%RSD		1.193	1.362	2.381
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		2.443	M 564.700	0.000
%RSD		3.182	M 0.468	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		100.948%	0.118	5.372
%RSD		1.425	7.462	0.637
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		124.400	0.000	
%RSD		0.392	0.000	

240-12856 -e-4-a, 7/6/2012 20:11:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		49.171%	3.513	31.630
%RSD		30.820	2.068	3.882
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		919.600	28170.000	M 43710.000
%RSD		0.445	0.471	M 0.392
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	T 5339.000	TM 511500.000
%RSD		0.000	T 1.224	TM 0.156
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		T 58.404%	61.406%	M 577.700
%RSD		T 13.796	2.454	M 1.745
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		173.600	76.000	8.831
%RSD		1.293	0.153	20.130
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		TM 3707.000	TM 139700.000	74.900
%RSD		TM 1.540	TM 0.496	0.517
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		149.700	92.090	M 708.100
%RSD		0.111	0.565	M 1.175
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		56.524%	82.900	0.626
%RSD		2.015	0.486	10.670
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		9.698	M 539.600	32.530
%RSD		6.424	M 0.490	2.197
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.381	-42.170
%RSD		0.000	6.436	46.290
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		7.972	65.293%	12.550
%RSD		3.846	2.078	1.853
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		2.068	M 439.800	0.000
%RSD		5.213	M 0.561	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		71.835%	0.761	3.190
%RSD		2.249	6.025	0.943
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		92.350	0.000	
%RSD		0.298	0.000	

CCV 7/6/2012 20:17:17 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		74.375%	112.179%	91.351%
%RSD		23.767	4.480	7.438
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		±96.120%	85.923%	98.972%
%RSD		±0.666	0.925	3.771
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	±99.745%	102.757%
%RSD		0.000	±7.827	8.009
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±69.733%	68.934%	94.100%
%RSD		±16.492	1.255	2.693
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		95.129%	96.001%	13.130
%RSD		0.707	0.107	2.762
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		±105.872%	±93.097%	96.728%
%RSD		±8.354	±0.183	0.522
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		96.020%	97.451%	100.229%
%RSD		0.571	0.789	2.160
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		64.452%	96.173%	-0.522
%RSD		2.235	1.256	83.440
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		98.505%	99.778%	99.568%
%RSD		3.570	0.533	0.606
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.972%	59.410
%RSD		0.000	0.661	173.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		96.081%	69.549%	97.842%
%RSD		1.578	0.977	0.291
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		97.057%	98.383%	0.000
%RSD		1.074	0.332	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		71.728%	98.943%	97.325%
%RSD		1.302	0.399	0.423
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		98.547%	0.000	
%RSD		0.323	0.000	

CCB 7/6/2012 20:23:27 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		97.811%	0.114	1.074
%RSD		19.708	13.200	8.222
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		28.950	39.120	18.260
%RSD		8.858	10.400	13.290
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	30.920	202.500
%RSD		0.000	16.790	14.070
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		74.161%	63.570%	0.487
%RSD		15.001	0.465	57.460
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.059	0.113	-0.572
%RSD		251.200	21.930	51.680
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		1.901	58.450	0.070
%RSD		7.954	26.740	25.890
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.165	0.163	0.297
%RSD		39.740	8.701	58.980
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		62.430%	0.066	-0.004
%RSD		0.645	95.110	1166.000
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.052	0.436	0.162
%RSD		22.420	25.040	27.400
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.026	0.139
%RSD		0.000	2.772	1094.000
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.065	67.259%	-0.028
%RSD		11.810	0.640	59.050
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.111	0.247	0.000
%RSD		10.360	32.780	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		67.059%	0.369	0.287
%RSD		0.989	22.920	10.230
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.110	0.000	
%RSD		28.070	0.000	

240-12856 -e-5-a, 7/6/2012 20:29:12 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		79.898%	6.239	55.410
%RSD		21.885	3.785	5.522
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		4672.000	9030.000	<u>M 41190.000</u>
%RSD		0.914	1.433	<u>M 0.203</u>
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	<u>T 7522.000</u>	19510.000
%RSD		0.000	<u>T 7.376</u>	7.794
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 70.413%</u>	67.327%	<u>M 231.200</u>
%RSD		<u>T 15.495</u>	2.967	<u>M 2.264</u>
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		<u>M 229.500</u>	75.270	8.684
%RSD		<u>M 0.157</u>	0.726	24.110
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 2306.000</u>	<u>TM 97390.000</u>	77.750
%RSD		<u>TM 7.771</u>	<u>TM 0.207</u>	0.936
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		<u>M 324.200</u>	135.700	<u>M 1184.000</u>
%RSD		<u>M 0.218</u>	0.901	<u>M 0.112</u>
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		63.809%	50.940	0.807
%RSD		2.147	1.528	27.320
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		16.840	160.200	46.680
%RSD		2.084	0.379	0.488
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	1.023	-21.200
%RSD		0.000	1.743	133.200
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		41.640	68.437%	11.130
%RSD		1.333	2.671	1.213
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		3.662	<u>M 351.500</u>	0.000
%RSD		0.677	<u>M 0.553</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		80.513%	0.581	5.153
%RSD		1.758	4.996	0.483
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		110.900	0.000	
%RSD		0.794	0.000	

240-12676 -b-8-a, 7/6/2012 20:34:56 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		81.356%	0.023	M 499.300
%RSD		25.931	110.500	M 6.401
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		73800.000	75410.000	10.420
%RSD		0.684	0.765	27.240
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	3178.000	M 148800.000
%RSD		0.000	5.804	M 7.405
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		65.341%	62.588%	0.416
%RSD		17.336	0.589	0.662
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.294	0.174	3.527
%RSD		113.600	22.520	26.070
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		60.660	531.200	0.122
%RSD		8.448	1.331	4.233
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.485	0.414	2.216
%RSD		11.260	5.028	7.648
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		58.223%	0.604	0.291
%RSD		0.757	14.010	6.126
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.014	TM 3169.000	20.050
%RSD		606.400	TM 0.195	0.930
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.001	0.575
%RSD		0.000	239.200	82.210
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.009	62.947%	0.098
%RSD		141.800	0.698	28.370
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.027	41.710	0.000
%RSD		43.750	1.816	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		65.422%	-0.066	0.021
%RSD		1.227	11.530	28.930
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.090	0.000	
%RSD		6.430	0.000	

240-12676 -b-9-a, 7/6/2012 20:40:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		53.183%	0.024	34.090
%RSD		30.419	75.120	2.818
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		<u>TM 277800.000</u>	<u>M 102800.000</u>	25.050
%RSD		<u>TM 0.925</u>	<u>M 0.605</u>	7.157
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	<u>T 1759.000</u>	<u>TM 484800.000</u>
%RSD		0.000	<u>T 0.567</u>	<u>TM 0.340</u>
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		<u>T 61.325%</u>	61.780%	0.805
%RSD		<u>T 13.844</u>	3.010	44.270
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.186	0.173	-0.786
%RSD		35.500	10.960	9.426
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		<u>TM 4810.000</u>	<u>T 9599.000</u>	2.403
%RSD		<u>TM 1.709</u>	<u>T 0.729</u>	4.548
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		3.524	0.619	7.530
%RSD		1.758	15.160	1.898
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		55.069%	4.993	0.204
%RSD		2.018	4.546	37.920
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.132	<u>M 867.700</u>	1.261
%RSD		52.750	<u>M 1.176</u>	6.053
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.002	-0.624
%RSD		0.000	187.000	63.430
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.007	62.613%	0.128
%RSD		89.320	2.120	26.050
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.039	<u>M 399.300</u>	0.000
%RSD		34.550	<u>M 0.531</u>	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		66.182%	-0.111	-0.008
%RSD		2.793	3.381	43.040
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.182	0.000	
%RSD		2.313	0.000	

240-12741 -d-5-a, 7/6/2012 20:46:26 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		26.511%	0.240	M 806.200
%RSD		47.144	18.640	M 9.373
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 2555000.000	M 222200.000	M 9377.000
%RSD		TM 0.365	M 0.732	M 0.955
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		T 0.000	T 96900.000	M 212000.000
%RSD		T 0.000	T 3.079	M 0.687
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		48.498%	85.362%	127.500
%RSD		22.777	4.165	4.148
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		15.870	26.970	4.711
%RSD		2.184	0.303	7.292
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		T 565.700	T 8786.000	4.385
%RSD		T 4.269	T 0.509	1.414
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		13.990	7.354	147.200
%RSD		2.679	0.412	0.912
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		68.948%	6.523	-0.581
%RSD		5.029	3.145	9.028
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.589	TM 2474.000	2.200
%RSD		31.070	TM 0.498	2.516
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.021	-0.222
%RSD		0.000	22.430	805.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.075	76.357%	0.687
%RSD		20.830	4.668	7.937
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.180	84.110	0.000
%RSD		6.596	1.208	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		75.966%	0.168	0.109
%RSD		3.582	7.692	2.002
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		5.141	0.000	
%RSD		0.755	0.000	

240-12743 -b-1-b@5, 7/6/2012 20:52:16 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		84.214%	0.004	18.150
%RSD		26.726	321.200	12.400
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		TM 110500.000	6968.000	13.130
%RSD		TM 0.373	0.672	10.370
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	594.000	29260.000
%RSD		0.000	7.058	7.676
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		76.075%	74.705%	0.130
%RSD		18.080	0.426	79.530
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.231	0.128	0.903
%RSD		82.020	5.752	54.670
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		16.320	1255.000	0.032
%RSD		8.516	0.429	12.630
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.246	0.133	1.532
%RSD		20.660	52.200	1.873
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		69.811%	0.169	0.044
%RSD		0.842	44.040	41.690
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.015	46.090	0.368
%RSD		37.760	0.507	33.110
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.005	-0.520
%RSD		0.000	151.500	193.400
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.012	73.109%	-0.012
%RSD		43.570	0.664	271.100
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.022	55.020	0.000
%RSD		75.920	0.624	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		74.675%	-0.139	-0.045
%RSD		0.081	10.890	5.981
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.041	0.000	
%RSD		8.288	0.000	

CCV 7/6/2012 20:57:59 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		82.864%	115.521%	96.522%
%RSD		25.203	4.115	9.576
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		±97.248%	87.006%	96.589%
%RSD		±0.352	1.120	2.019
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	±100.402%	102.988%
%RSD		0.000	±7.767	7.991
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		±72.822%	70.713%	92.211%
%RSD		±17.281	1.147	2.278
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		95.490%	95.809%	10.250
%RSD		0.795	0.143	24.040
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		±104.570%	±92.665%	95.620%
%RSD		±8.186	±0.466	0.691
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		94.634%	95.346%	99.873%
%RSD		1.200	1.433	1.359
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		66.312%	96.297%	-0.588
%RSD		1.112	0.245	35.950
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		101.229%	99.656%	98.244%
%RSD		2.612	0.969	0.736
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	96.330%	39.920
%RSD		0.000	0.664	103.900
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		96.379%	70.979%	98.079%
%RSD		0.927	1.066	0.238
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		98.133%	99.320%	0.000
%RSD		0.895	1.053	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		73.087%	99.063%	96.633%
%RSD		1.879	0.415	0.626
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		99.239%	0.000	
%RSD		0.659	0.000	

CCB 7/6/2012 21:03:58 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
X		96.940%	0.063	2.184
%RSD		20.411	21.290	13.390
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
X		118.600	34.510	4.024
%RSD		3.542	15.160	31.980
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
X		0.000	23.740	67.080
%RSD		0.000	14.860	15.760
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
X		73.833%	65.555%	0.196
%RSD		14.778	0.138	68.830
Run	Time	51V	52Cr	53Cr O
		ppb	ppb	ppb
X		0.172	0.099	-0.505
%RSD		29.270	26.090	65.920
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
X		0.574	17.730	0.061
%RSD		11.110	3.935	19.400
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
X		0.110	0.117	0.277
%RSD		20.320	18.970	61.580
Run	Time	72Ge	75As	77Ar Cl
		ppb	ppb	ppb
X		65.062%	0.057	0.016
%RSD		0.888	9.927	511.700
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
X		0.026	0.280	0.097
%RSD		83.300	5.210	134.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
X		0.000	0.028	0.258
%RSD		0.000	11.920	223.800
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
X		0.030	68.822%	-0.024
%RSD		59.250	0.481	61.360
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
X		0.102	0.132	0.000
%RSD		3.952	44.670	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
X		69.910%	0.320	0.277
%RSD		0.662	12.900	11.590
Run	Time	208Pb	209Bi	
		ppb	ppb	
X		0.064	0.000	
%RSD		2.962	0.000	

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49161 Batch Start Date: 06/28/12 06:51 Batch Analyst: Girard, SusanBatch Method: 3005A Batch End Date: 06/28/12 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00018	MTHCL 00032	MTHNO3 00028	MTICP1 00017
MB 240-49161/1		3005A, 6010B		50 mL	50 mL		2.5 mL	1 mL	
LCS 240-49161/2		3005A, 6010B		50 mL	50 mL	1 mL	2.5 mL	1 mL	1 mL
240-12605-H-2	MW-1A(20120622)	3005A, 6010B	D	50 mL	50 mL		2.5 mL	1 mL	
240-12605-H-3	MW-102A(20120622)	3005A, 6010B	D	50 mL	50 mL		2.5 mL	1 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTICP2A 00016					
MB 240-49161/1		3005A, 6010B							
LCS 240-49161/2		3005A, 6010B		1 mL					
240-12605-H-2	MW-1A(20120622)	3005A, 6010B	D						
240-12605-H-3	MW-102A(20120622)	3005A, 6010B	D						

Batch Notes	
Filter Paper Lot Number	4748459
Pipette ID	383363-383364
Digestion Tube/Cup Lot #	1202-052

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49871 Batch Start Date: 07/05/12 09:37 Batch Analyst: Sutherland, AaronBatch Method: 3005A Batch End Date: 07/05/12 17:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00018	MTHCL 00033	MTHNO3 00028	MTICP1 00017
MB 240-49868/1-A		3005A, 6010B		50 mL	50 mL		2.5 mL	1 mL	
LCS 240-49871/2		3005A, 6010B		50 mL	50 mL	1 mL	2.5 mL	1 mL	1 mL
240-12605-E-1-A	MW-101(20120622)	3005A, 6010B	D	50 mL	50 mL		2.5 mL	1 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTICP2A 00017					
MB 240-49868/1-A		3005A, 6010B							
LCS 240-49871/2		3005A, 6010B		1 mL					
240-12605-E-1-A	MW-101(20120622)	3005A, 6010B	D						

Batch Notes	
Filter Paper Lot Number	4748459
Pipette ID	383364
Digestion Tube/Cup Lot #	1202052

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49161 Batch Start Date: 06/28/12 06:51 Batch Analyst: Girard, SusanBatch Method: 3005A Batch End Date: 06/28/12 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTHCL 00032	MTHNO3 00028	MTICFMS2 00008	MTICPMSA 00008
MB 240-49161/1		3005A, 6020		50 mL	50 mL	2.5 mL	1 mL		
LCS 240-49161/3		3005A, 6020		50 mL	50 mL	2.5 mL	1 mL	0.5 mL	0.5 mL
240-12605-H-2	MW-1A(20120622)	3005A, 6020	D	50 mL	50 mL	2.5 mL	1 mL		
240-12605-H-3	MW-102A(20120622)	3005A, 6020	D	50 mL	50 mL	2.5 mL	1 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTICPMSB 00008					
MB 240-49161/1		3005A, 6020							
LCS 240-49161/3		3005A, 6020		0.5 mL					
240-12605-H-2	MW-1A(20120622)	3005A, 6020	D						
240-12605-H-3	MW-102A(20120622)	3005A, 6020	D						

Batch Notes	
Filter Paper Lot Number	4748459
Pipette ID	383363-383364
Digestion Tube/Cup Lot #	1202-052

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49878 Batch Start Date: 07/05/12 09:46 Batch Analyst: Sutherland, AaronBatch Method: 3005A Batch End Date: 07/05/12 17:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTHCL 00033	MTHNO3 00028	MTICFMS2 00008	MTICPMSA 00008
MB 240-49868/1-A		3005A, 6020		50 mL	50 mL	2.5 mL	1 mL		
LCS 240-49878/2		3005A, 6020		50 mL	50 mL	2.5 mL	1 mL	0.5 mL	0.5 mL
240-12605-E-1-A	MW-101(20120622)	3005A, 6020	D	50 mL	50 mL	2.5 mL	1 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTICPMSB 00008					
MB 240-49868/1-A		3005A, 6020							
LCS 240-49878/2		3005A, 6020		0.5 mL					
240-12605-E-1-A	MW-101(20120622)	3005A, 6020	D						

Batch Notes	
Filter Paper Lot Number	4748459
Pipette ID	383363
Digestion Tube/Cup Lot #	1202052

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-12605-1

SDG No.: _____

Project: Oak Grove Village

Client Sample ID	Lab Sample ID
<u>MW-101(20120622)</u>	<u>240-12605-1</u>
<u>MW-1A(20120622)</u>	<u>240-12605-2</u>
<u>MW-102A(20120622)</u>	<u>240-12605-3</u>

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-101(20120622)

Lab Sample ID: 240-12605-1

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG ID.:

Matrix: Water

Date Sampled: 06/22/2012 09:55

Reporting Basis: WET

Date Received: 06/23/2012 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite as N	0.10	0.10	0.012	mg/L	U	H	1	9056A
14797-55-8	Nitrate as N	0.82	0.10	0.023	mg/L		H	1	9056A
14265-44-2	Orthophosphate	0.19	0.50	0.044	mg/L	J	H	1	9056A
	Bicarbonate Alkalinity as CaCO3	260	5.0	2.7	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	5.0	5.0	2.7	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: MW-101(20120622) Lab Sample ID: 240-12605-1

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG ID.: _____

Matrix: Water Date Sampled: 06/22/2012 09:55

Reporting Basis: WET Date Received: 06/23/2012 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Phosphorus as PO4	0.10	0.10	0.033	mg/L	U		1	SM 4500 P E
16887-00-6	Chloride	7.4	1.0	0.10	mg/L			1	9056A
16984-48-8	Fluoride	0.043	1.0	0.015	mg/L	J		1	9056A
24959-67-9	Bromide	0.088	0.50	0.081	mg/L	J		1	9056A
14808-79-8	Sulfate	7.2	1.0	0.12	mg/L			1	9056A
7664-41-7	Ammonia	0.082	0.20	0.035	mg/L	J	B	1	SM4500 NH3 -F

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A(20120622) Lab Sample ID: 240-12605-2
Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG ID.: _____
Matrix: Water Date Sampled: 06/21/2012 17:05
Reporting Basis: WET Date Received: 06/23/2012 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Bicarbonate Alkalinity as CaCO ₃	280	5.0	2.7	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO ₃	5.0	5.0	2.7	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: <u>MW-1A(20120622)</u>	Lab Sample ID: <u>240-12605-2</u>
Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-12605-1</u>
SDG ID.: _____	
Matrix: <u>Water</u>	Date Sampled: <u>06/21/2012 17:05</u>
Reporting Basis: <u>WET</u>	Date Received: <u>06/23/2012 09:45</u>

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Phosphorus as PO4	0.10	0.10	0.033	mg/L	U		1	SM 4500 P E
16887-00-6	Chloride	6.3	1.0	0.10	mg/L			1	9056A
14797-65-0	Nitrite as N	0.10	0.10	0.012	mg/L	U	H	1	9056A
16984-48-8	Fluoride	0.042	1.0	0.015	mg/L	J		1	9056A
14797-55-8	Nitrate as N	1.6	0.10	0.023	mg/L		H	1	9056A
24959-67-9	Bromide	0.50	0.50	0.081	mg/L	U		1	9056A
14265-44-2	Orthophosphate	0.50	0.50	0.044	mg/L	U	H	1	9056A
14808-79-8	Sulfate	6.2	1.0	0.12	mg/L			1	9056A
7664-41-7	Ammonia	0.20	0.20	0.035	mg/L	U		1	SM4500 NH3 -F

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-102A(20120622)

Lab Sample ID: 240-12605-3

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG ID.:

Matrix: Water

Date Sampled: 06/22/2012 12:15

Reporting Basis: WET

Date Received: 06/23/2012 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Bicarbonate Alkalinity as CaCO ₃	160	5.0	2.7	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO ₃	5.0	5.0	2.7	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: <u>MW-102A(20120622)</u>	Lab Sample ID: <u>240-12605-3</u>
Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-12605-1</u>
SDG ID.: _____	
Matrix: <u>Water</u>	Date Sampled: <u>06/22/2012 12:15</u>
Reporting Basis: <u>WET</u>	Date Received: <u>06/23/2012 09:45</u>

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Phosphorus as PO4	0.10	0.10	0.033	mg/L	U		1	SM 4500 P E
16887-00-6	Chloride	5.3	1.0	0.10	mg/L			1	9056A
14797-65-0	Nitrite as N	0.10	0.10	0.012	mg/L	U	H	1	9056A
16984-48-8	Fluoride	0.050	1.0	0.015	mg/L	J		1	9056A
14797-55-8	Nitrate as N	1.2	0.10	0.023	mg/L		H	1	9056A
24959-67-9	Bromide	0.50	0.50	0.081	mg/L	U		1	9056A
14265-44-2	Orthophosphate	0.054	0.50	0.044	mg/L	J	H	1	9056A
14808-79-8	Sulfate	12	1.0	0.12	mg/L			1	9056A
7664-41-7	Ammonia	0.049	0.20	0.035	mg/L	J	B	1	SM4500 NH3 -F

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Analyst: TH Batch Start Date: 06/29/2012
Reporting Units: mg/L Analytical Batch No.: 49474

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	CCV	14:24	Total Phosphorus as PO4	0.479	0.500	96	90-110		WCPHOS50PPM_00015
11	CCB	14:24	Total Phosphorus as PO4	0.10				U	
22	CCV	14:27	Total Phosphorus as PO4	0.485	0.500	97	90-110		WCPHOS50PPM_00015
23	CCB	14:27	Total Phosphorus as PO4	0.10				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Analyst: TH Batch Start Date: 06/29/2012
Reporting Units: mg/L Analytical Batch No.: 49478

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	16:04	Total Phosphorus as PO4	0.481	0.500	96	90-110		WCPHOS50PPM_00015
2	CCB	16:04	Total Phosphorus as PO4	0.10				U	
8	CCV	16:06	Total Phosphorus as PO4	0.486	0.500	97	90-110		WCPHOS50PPM_00015
9	CCB	16:06	Total Phosphorus as PO4	0.10				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Analyst: LG Batch Start Date: 05/30/2012
Reporting Units: mg/L Analytical Batch No.: 45592

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
13	ICV	09:53	Nitrite as N	2.40	2.50	96	90-110		WCICLCS_00093
			Nitrate as N	2.39	2.50	96	90-110		WCICLCS_00093
			Orthophosphate	2.45	2.50	98	90-110		WCICLCS_00093

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Analyst: LG Batch Start Date: 06/25/2012
 Reporting Units: mg/L Analytical Batch No.: 48696

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
3	CCV	11:30	Chloride	48.8	50.0	98	90-110		WCICCCV_00159
			Fluoride	2.45	2.50	98	90-110		WCICCCV_00159
			Bromide	9.61	10.0	96	90-110		WCICCCV_00159
			Sulfate	47.8	50.0	96	90-110		WCICCCV_00159
4	CCB	11:46	Chloride	1.0				U	
			Fluoride	1.0				U	
			Bromide	0.50				U	
			Sulfate	1.0				U	
13	CCV	14:14	Chloride	50.0	50.0	100	90-110		WCICCCV_00159
			Fluoride	2.49	2.50	100	90-110		WCICCCV_00159
			Bromide	9.74	10.0	97	90-110		WCICCCV_00159
			Sulfate	48.7	50.0	97	90-110		WCICCCV_00159
14	CCB	14:30	Chloride	1.0				U	
			Fluoride	1.0				U	
			Bromide	0.50				U	
			Sulfate	1.0				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Analyst: LG Batch Start Date: 06/25/2012
Reporting Units: mg/L Analytical Batch No.: 48697

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
3	CCV	11:30	Nitrite as N	2.38	2.50	95	90-110		WCICCCV_00159
			Nitrate as N	2.36	2.50	94	90-110		WCICCCV_00159
4	CCB	11:46	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	
13	CCV	14:14	Nitrite as N	2.41	2.50	96	90-110		WCICCCV_00159
			Nitrate as N	2.39	2.50	96	90-110		WCICCCV_00159
14	CCB	14:30	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Analyst: LG Batch Start Date: 06/26/2012
Reporting Units: mg/L Analytical Batch No.: 48902

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	12:14	Orthophosphate	2.58	2.50	103	90-110		WCICCCV_00159
3	CCB	12:31	Orthophosphate	0.50				U	
11	CCV	14:50	Orthophosphate	2.64	2.50	106	90-110		WCICCCV_00159
12	CCB	15:08	Orthophosphate	0.50				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Analyst: LG Batch Start Date: 06/28/2012
Reporting Units: mg/L Analytical Batch No.: 49129

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
13	ICV	11:49	Chloride	52.4	50.0	105	90-110		WCICLCS_00098
			Fluoride	2.49	2.50	100	90-110		WCICLCS_00098
			Bromide	9.79	10.0	98	90-110		WCICLCS_00098
			Sulfate	49.6	50.0	99	90-110		WCICLCS_00098

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
 SDG No.: _____
 Analyst: JB Batch Start Date: 07/06/2012
 Reporting Units: mg/L Analytical Batch No.: 50113

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
13	CCV	18:48	Chloride	50.6	50.0	101	90-110		WCICCCV_00163
			Fluoride	2.43	2.50	97	90-110		WCICCCV_00163
			Bromide	9.58	10.0	96	90-110		WCICCCV_00163
			Sulfate	48.0	50.0	96	90-110		WCICCCV_00163
14	CCB	19:06	Chloride	0.113				J	
			Fluoride	1.0				U	
			Bromide	0.50				U	
			Sulfate	1.0				U	
19	CCV	20:33	Chloride	50.7	50.0	101	90-110		WCICCCV_00163
			Fluoride	2.42	2.50	97	90-110		WCICCCV_00163
			Bromide	9.59	10.0	96	90-110		WCICCCV_00163
			Sulfate	48.2	50.0	96	90-110		WCICCCV_00163
20	CCB	20:50	Chloride	1.0				U	
			Fluoride	1.0				U	
			Bromide	0.50				U	
			Sulfate	1.0				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Analyst: JK Batch Start Date: 07/09/2012
Reporting Units: mg/L Analytical Batch No.: 50241

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
5	ICV	07:24	Ammonia	13.9	13.9	100	90-110		WCSIMPNUTRNT_00015
6	ICB	07:24	Ammonia	0.0702				J	
17	CCV	09:10	Ammonia	2.28	2.50	91	90-110		WCNH31000_00014
18	CCB	09:19	Ammonia	0.20				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1
SDG No.: _____
Analyst: JK Batch Start Date: 07/10/2012
Reporting Units: mg/L Analytical Batch No.: 50397

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
6	ICB	12:44	Ammonia	0.0363				J	
5	ICV	12:54	Ammonia	13.6	13.9	98	90-110		WCSIMPNUTRNT_00015
17	CCV	13:27	Ammonia	2.43	2.50	97	90-110		WCNH31000_00014
18	CCB	13:40	Ammonia	0.0578				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 48696 Date: 06/25/2012 12:02							
9056A	MB 240-48696/5	Chloride	1.0	U	mg/L	1.0	1
9056A	MB 240-48696/5	Fluoride	1.0	U	mg/L	1.0	1
9056A	MB 240-48696/5	Bromide	0.50	U	mg/L	0.50	1
9056A	MB 240-48696/5	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 48697 Date: 06/25/2012 12:02							
9056A	MB 240-48697/5	Nitrite as N	0.10	U	mg/L	0.10	1
9056A	MB 240-48697/5	Nitrate as N	0.10	U	mg/L	0.10	1
Batch ID: 48902 Date: 06/26/2012 12:48							
9056A	MB 240-48902/4	Orthophosphate	0.50	U	mg/L	0.50	1
Batch ID: 50113 Date: 07/06/2012 19:23							
9056A	MB 240-50108/1-A	Chloride	1.0	U	mg/L	1.0	1
9056A	MB 240-50108/1-A	Fluoride	1.0	U	mg/L	1.0	1
9056A	MB 240-50108/1-A	Bromide	0.50	U	mg/L	0.50	1
9056A	MB 240-50108/1-A	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 49573 Date: 06/29/2012 12:11							
SM 2320B	MB 240-49573/5	Alkalinity	5.0	U	mg/L	5.0	1
SM 2320B	MB 240-49573/5	Bicarbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	1
SM 2320B	MB 240-49573/5	Carbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	1
Batch ID: 49870 Date: 07/03/2012 11:19							
SM 2320B	MB 240-49870/5	Alkalinity	5.0	U	mg/L	5.0	1
SM 2320B	MB 240-49870/5	Bicarbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	1
SM 2320B	MB 240-49870/5	Carbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	1
Batch ID: 49474 Date: 06/29/2012 14:24 Prep Batch: 49375 Date: 06/29/2012 07:45							
SM 4500 P E	MB 240-49375/10-A	Total Phosphorus as PO4	0.10	U	mg/L	0.10	1
Batch ID: 49478 Date: 06/29/2012 16:04 Prep Batch: 49419 Date: 06/29/2012 07:45							
SM 4500 P E	MB 240-49413/1-B	Total Phosphorus as PO4	0.10	U	mg/L	0.10	1
Batch ID: 50241 Date: 07/09/2012 07:28							
SM4500 NH3 -F	MB 240-50241/7	Ammonia	0.0515	J	mg/L	0.20	1
Batch ID: 50397 Date: 07/10/2012 12:54							
SM4500 NH3 -F	MB 240-50305/1-A	Ammonia	0.0825	J	mg/L	0.20	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 48696 Date: 06/25/2012 13:25											
9056A	240-12605-2	Chloride	6.3		mg/L						
9056A	240-12605-2	Chloride	60.2		mg/L	50.0	108	80-120			
	MS										
9056A	240-12605-2	Fluoride	0.042	J	mg/L						
9056A	240-12605-2	Fluoride	3.02		mg/L	2.50	119	80-120			
	MS										
9056A	240-12605-2	Bromide	0.50	U	mg/L						
9056A	240-12605-2	Bromide	10.6		mg/L	10.0	106	80-120			
	MS										
9056A	240-12605-2	Sulfate	6.2		mg/L						
9056A	240-12605-2	Sulfate	58.5		mg/L	50.0	105	80-120			
	MS										
Batch ID: 48697 Date: 06/25/2012 13:25											
9056A	240-12605-2	Nitrite as N	0.10	U	mg/L						H
9056A	240-12605-2	Nitrite as N	2.68		mg/L	2.50	107	80-120			
	MS										
9056A	240-12605-2	Nitrate as N	1.6		mg/L						H
9056A	240-12605-2	Nitrate as N	4.21		mg/L	2.50	104	80-120			
	MS										
Batch ID: 48902 Date: 06/26/2012 13:41											
9056A	240-12605-1	Orthophosphate	0.19	J	mg/L						H
9056A	240-12605-1	Orthophosphate	4.72		mg/L	2.50	181	80-120			F
	MS										
Batch ID: 50113 Date: 07/06/2012 20:15											
9056A	240-12605-1	Chloride	7.4		mg/L						
9056A	240-12605-1	Chloride	63.8		mg/L	50.0	113	80-120			
	MS										
9056A	240-12605-1	Fluoride	0.043	J	mg/L						
9056A	240-12605-1	Fluoride	2.76		mg/L	2.50	109	80-120			
	MS										
9056A	240-12605-1	Bromide	0.088	J	mg/L						
9056A	240-12605-1	Bromide	10.7		mg/L	10.0	106	80-120			
	MS										
9056A	240-12605-1	Sulfate	7.2		mg/L						
9056A	240-12605-1	Sulfate	59.8		mg/L	50.0	105	80-120			
	MS										
Batch ID: 49474 Date: 06/29/2012 14:24 Prep Batch: 49375 Date: 06/29/2012 07:47											
SM 4500	240-12605-2	Total Phosphorus as PO4	0.10	U	mg/L						
P E											
SM 4500	240-12605-2	Total Phosphorus as PO4	0.516		mg/L	0.500	103	10-199			
P E	MS										
Batch ID: 49478 Date: 06/29/2012 16:04 Prep Batch: 49419 Date: 06/29/2012 07:54											
SM 4500	240-12605-1	Total Phosphorus as PO4	0.10	U	mg/L						
P E											
SM 4500	240-12605-1	Total Phosphorus as PO4	0.545		mg/L	0.500	109	10-199			
P E	MS										
Batch ID: 50397 Date: 07/10/2012 13:05											
SM4500	240-12605-1	Ammonia	0.082	J	mg/L						B
NH3 -F											

Calculations are performed before rounding to avoid round-off errors in calculated results.

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
SM4500 NH3 -F	240-12605-1 MS	Ammonia	2.74		mg/L	2.50	106	75-125			

Calculations are performed before rounding to avoid round-off errors in calculated results.

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 49474 Date: 06/29/2012 14:24 Prep Batch: 49375 Date: 06/29/2012 07:48											
SM 4500 P E	240-12605-2 MSD	Total Phosphorus as PO4	0.508		mg/L	0.500	102	10-199	2	20	
Batch ID: 49478 Date: 06/29/2012 16:04 Prep Batch: 49419 Date: 06/29/2012 07:57											
SM 4500 P E	240-12605-1 MSD	Total Phosphorus as PO4	0.549		mg/L	0.500	110	10-199	1	20	
Batch ID: 50397 Date: 07/10/2012 13:08											
SM4500 NH3 -F	240-12605-1 MSD	Ammonia	2.84		mg/L	2.50	111	75-125	4	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-12605-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 48696 Date: 06/25/2012 12:19											
						LCS Source: WCICLCS_00097					
9056A	LCS	Chloride	48.9		mg/L	50.0	98	90-110			
	240-48696/6										
9056A	LCS	Fluoride	2.47		mg/L	2.50	99	90-110			
	240-48696/6										
9056A	LCS	Bromide	9.56		mg/L	10.0	96	90-110			
	240-48696/6										
9056A	LCS	Sulfate	47.7		mg/L	50.0	95	90-110			
	240-48696/6										
Batch ID: 48697 Date: 06/25/2012 12:19											
						LCS Source: WCICLCS_00097					
9056A	LCS	Nitrite as N	2.38		mg/L	2.50	95	90-110			
	240-48697/6										
9056A	LCS	Nitrate as N	2.31		mg/L	2.50	92	90-110			
	240-48697/6										
Batch ID: 48902 Date: 06/26/2012 13:06											
						LCS Source: WCICLCS_00097					
9056A	LCS	Orthophosphate	2.61		mg/L	2.50	104	90-110			
	240-48902/5										
Batch ID: 50113 Date: 07/06/2012 19:41											
						LCS Source: WCICLCS_00100					
9056A	LCS	Chloride	51.4		mg/L	50.0	103	90-110			
	240-50108/2-A										
9056A	LCS	Fluoride	2.44		mg/L	2.50	98	90-110			
	240-50108/2-A										
9056A	LCS	Bromide	9.73		mg/L	10.0	97	90-110			
	240-50108/2-A										
9056A	LCS	Sulfate	49.1		mg/L	50.0	98	90-110			
	240-50108/2-A										
Batch ID: 49573 Date: 06/29/2012 12:05											
						LCS Source: WCWIBBYMINERA_00002					
SM	LCS	Alkalinity	82.5		mg/L	79.4	104	90-127			
	2320B										
	240-49573/4										
Batch ID: 49870 Date: 07/03/2012 11:13											
						LCS Source: WCWIBBYMINERA_00002					
SM	LCS	Alkalinity	82.7		mg/L	79.4	104	90-127			
	2320B										
	240-49870/4										
Batch ID: 49474 Date: 06/29/2012 14:24 Prep Batch: 49375 Date: 06/29/2012 07:46											
						LCS Source: WCCOMPLEXNUTR_00015					
SM 4500	LCS	Total Phosphorus as PO4	5.83		mg/L	5.50	106	53-134			
	P E										
	240-49375/11-A										
Batch ID: 49478 Date: 06/29/2012 16:04 Prep Batch: 49419 Date: 06/29/2012 07:48											
						LCS Source: WCCOMPLEXNUTR_00015					
SM 4500	LCS	Total Phosphorus as PO4	5.79		mg/L	5.50	105	53-134			
	P E										
	240-49413/2-B										
Batch ID: 50241 Date: 07/09/2012 07:29											
						LCS Source: WCSIMPNUTRNT_00015					
SM4500	LCS	Ammonia	14.0		mg/L	13.9	100	85-114			
	NH3 -F										
	240-50241/8										

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 50397 Date: 07/10/2012 12:54			LCS Source: WCSIMPNUTRNT_00015								
SM4500	LCS	Ammonia	12.9		mg/L	13.9	93	85-114			
NH3 -F	240-50305/2-A										

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: BARNEY
Method: SM 4500 P E MDL Date: 01/27/2010 16:30
Prep Method: 365.2/365.3/365

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Phosphorus as PO4		0.1	0.033

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: BARNEY
Method: SM 4500 P E XMDL Date: 01/27/2010 16:30

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Phosphorus as PO4		0.1	0.033

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: GARFUNKEL
Method: 9056A MDL Date: 01/27/2010 17:40

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Orthophosphate		0.5	0.044

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: GARFUNKEL
Method: 9056A XMDL Date: 01/27/2010 17:40

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Orthophosphate		0.5	0.044

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: SIMON
Method: 9056A MDL Date: 01/27/2010 17:40

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.1	0.023
Nitrite as N		0.1	0.012

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: SIMON
Method: 9056A XMDL Date: 01/27/2010 17:40

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.1	0.023
Nitrite as N		0.1	0.012

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: GARFUNKEL
Method: 9056A MDL Date: 01/27/2010 17:40

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bromide		0.5	0.081
Chloride		1	0.1
Fluoride		1	0.015
Orthophosphate		0.5	0.044
Sulfate		1	0.12

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: GARFUNKEL
Method: 9056A XMDL Date: 01/27/2010 17:40

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.5	0.081
Chloride		1	0.1
Fluoride		1	0.015
Orthophosphate		0.5	0.044
Sulfate		1	0.12

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: SIMON
Method: 9056A MDL Date: 01/27/2010 17:40

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bromide		0.5	0.081
Chloride		1	0.1
Fluoride		1	0.015
Nitrate as N		0.1	0.023
Nitrite as N		0.1	0.012
Sulfate		1	0.12

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: SIMON
Method: 9056A XMDL Date: 01/27/2010 17:40

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.5	0.081
Chloride		1	0.1
Fluoride		1	0.015
Nitrate as N		0.1	0.023
Nitrite as N		0.1	0.012
Sulfate		1	0.12

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: STEVE
Method: SM 2320B MDL Date: 01/27/2010 17:29

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bicarbonate Alkalinity as CaCO ₃		5	2.7
Carbonate Alkalinity as CaCO ₃		5	2.7

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: STEVE
Method: SM 2320B XMDL Date: 01/27/2010 17:29

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bicarbonate Alkalinity as CaCO ₃		5	2.7
Carbonate Alkalinity as CaCO ₃		5	2.7

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: DAVE
Method: SM4500 NH3 -F MDL Date: 01/27/2010 17:09

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ammonia		0.2	0.035

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-12605-1
SDG Number: _____
Matrix: Water Instrument ID: DAVE
Method: SM4500 NH3 -F XMDL Date: 01/27/2010 17:09

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.2	0.035

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Prep Method: 365.2/365.3/365

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-49375/10-A	06/29/2012 07:45	49375		50	50
LCS 240-49375/11-A	06/29/2012 07:46	49375		5	50
240-12605-2	06/29/2012 07:46	49375		50	50
240-12605-2 MS	06/29/2012 07:47	49375		50	50
240-12605-2 MSD	06/29/2012 07:48	49375		50	50
240-12605-3	06/29/2012 07:48	49375		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Prep Method: 365.2/365.3/365

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-49413/1-B	06/29/2012 07:45	49419		50	50
LCS 240-49413/2-B	06/29/2012 07:48	49419		5	50
240-12605-1	06/29/2012 07:51	49419		50	50
240-12605-1 MS	06/29/2012 07:54	49419		50	50
240-12605-1 MSD	06/29/2012 07:57	49419		50	50

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: BARNEY Method: SM 4500 P E

Start Date: 06/29/2012 14:10 End Date: 06/29/2012 15:32

Lab Sample ID	D / F	T y p e	Time	Analytes															
				T - P O 4															
IC 240-49375/1-A			14:10	X															
IC 240-49375/2-A			14:10	X															
IC 240-49375/3-A			14:10	X															
IC 240-49375/4-A			14:10	X															
IC 240-49375/5-A			14:10	X															
IC 240-49375/6-A			14:10	X															
IC 240-49375/7-A			14:10	X															
CCV 240-49375/8-A			14:11																
CCB 240-49375/9-A			14:11																
CCV 240-49375/8-A	1		14:24	X															
CCB 240-49375/9-A	1		14:24	X															
MB 240-49375/10-A	1	T	14:24	X															
LCS 240-49375/11-A	1	T	14:24	X															
240-12605-2	1	D	14:24	X															
240-12605-2 MS	1	D	14:24	X															
240-12605-2 MSD	1	D	14:24	X															
240-12605-3	1	D	14:24	X															
ZZZZZZ			14:24																
ZZZZZZ			14:24																
ZZZZZZ			14:24																
ZZZZZZ			14:24																
CCV 240-49375/8-A	1		14:27	X															
CCB 240-49375/9-A	1		14:27	X															
ZZZZZZ			14:27																
ZZZZZZ			14:27																
ZZZZZZ			14:27																
ZZZZZZ			14:27																
ZZZZZZ			14:27																
ZZZZZZ			14:27																
ZZZZZZ			14:27																
ZZZZZZ			14:27																
CCV 240-49375/8-A			14:30																
CCB 240-49375/9-A			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
CCV 240-49375/8-A			14:31																
CCB 240-49375/9-A			14:31																
ZZZZZZ			14:38																
ZZZZZZ			14:39																
CCB 240-49375/9-A			14:39																
CCV 240-49375/8-A			14:52																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: BARNEY Method: SM 4500 P E

Start Date: 06/29/2012 14:10 End Date: 06/29/2012 15:32

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				T - P O 4																	
CCB 240-49375/9-A			14:52																		
CCV 240-49375/8-A			14:53																		
CCB 240-49375/9-A			14:53																		
CCV 240-49375/8-A			15:06																		
CCB 240-49375/9-A			15:06																		
CCV 240-49375/8-A			15:07																		
CCB 240-49375/9-A			15:07																		
CCV 240-49375/8-A			15:31																		
CCB 240-49375/9-A			15:31																		
ZZZZZZ			15:31																		
CCV 240-49375/8-A			15:32																		
CCB 240-49375/9-A			15:32																		

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: BARNEY Method: SM 4500 P E

Start Date: 06/29/2012 16:04 End Date: 06/29/2012 16:06

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				T - P O 4																	
CCV 240-49419/1-A	1		16:04	X																	
CCB 240-49419/2-A	1		16:04	X																	
MB 240-49413/1-B	1	D	16:04	X																	
LCS 240-49413/2-B	1	D	16:04	X																	
240-12605-1	1	D	16:04	X																	
240-12605-1 MS	1	D	16:04	X																	
240-12605-1 MSD	1	D	16:04	X																	
CCV 240-49419/1-A	1		16:06	X																	
CCB 240-49419/2-A	1		16:06	X																	

Prep Types

D = Dissolved

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: GARFUNKEL Method: 9056A

Start Date: 05/30/2012 06:24 End Date: 05/30/2012 10:10

Lab Sample ID	D / F	T y p e	Time	Analytes																	
ZZZZZZ			06:24																		
ZZZZZZ			06:42																		
STD1 240-45592/3 IC			06:59																		
STD2 240-45592/4 IC			07:16																		
STD3 240-45592/5 IC			07:34																		
STD4 240-45592/6 IC			07:51																		
STD5 240-45592/7 ICRT			08:09																		
STD6 240-45592/8 IC			08:26																		
STD7 240-45592/9 IC			08:43																		
STD8 240-45592/10 IC			09:01																		
STD9 240-45592/11 IC			09:18																		
ZZZZZZ			09:36																		
ICV 240-45592/13	1		09:53																		
ICB 240-45592/14			10:10																		

Prep Types

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: GARFUNKEL Method: 9056A

Start Date: 06/26/2012 11:56 End Date: 06/26/2012 15:08

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				P O 4																	
ZZZZZZ			11:56																		
CCV 240-48902/2	1		12:14	X																	
CCB 240-48902/3	1		12:31	X																	
MB 240-48902/4	1	T	12:48	X																	
LCS 240-48902/5	1	T	13:06	X																	
240-12605-1	1	T	13:23	X																	
240-12605-1 MS	1	T	13:41	X																	
ZZZZZZ			13:58																		
240-12605-2	1	D	14:16	X																	
240-12605-3	1	D	14:33	X																	
CCV 240-48902/11	1		14:50	X																	
CCB 240-48902/12	1		15:08	X																	

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: GARFUNKEL Method: 9056A

Start Date: 06/28/2012 08:20 End Date: 06/28/2012 15:31

Lab Sample ID	D / F	T y p e	Time	Analytes															
ZZZZZZ			08:20																
ZZZZZZ			08:37																
STD1 240-49129/3 IC			08:55																
STD2 240-49129/4 IC			09:12																
STD3 240-49129/5 IC			09:29																
STD4 240-49129/6 IC			09:47																
STD5 240-49129/7 ICRT			10:04																
STD6 240-49129/8 IC			10:22																
STD7 240-49129/9 IC			10:39																
STD8 240-49129/10 IC			10:56																
STD9 240-49129/11 IC			11:14																
ZZZZZZ			11:31																
ICV 240-49129/13	1		11:49																
ICB 240-49129/14			12:06																
ZZZZZZ			12:55																
ZZZZZZ			13:12																
ZZZZZZ			13:30																
ZZZZZZ			13:47																
ZZZZZZ			14:04																
ZZZZZZ			14:22																
ZZZZZZ			14:39																
ZZZZZZ			14:57																
CCV 240-49129/23			15:14																
CCB 240-49129/24			15:31																

Prep Types

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: GARFUNKEL Method: 9056A

Start Date: 07/06/2012 15:37 End Date: 07/06/2012 20:50

Lab Sample ID	D / F	T y p e	Time	Analytes															
				B r	C L -	F	S O 4												
ZZZZZZ			15:37																
ZZZZZZ			15:54																
CCV 240-50113/3			16:12																
CCB 240-50113/4			16:29																
ZZZZZZ			16:47																
ZZZZZZ			17:04																
ZZZZZZ			17:21																
ZZZZZZ			17:39																
ZZZZZZ			17:56																
ZZZZZZ			18:14																
ZZZZZZ			18:31																
CCV 240-50113/13	1		18:48	X	X	X	X												
CCB 240-50113/14	1		19:06	X	X	X	X												
MB 240-50108/1-A	1	D	19:23	X	X	X	X												
LCS 240-50108/2-A	1	D	19:41	X	X	X	X												
240-12605-1	1	D	19:58	X	X	X	X												
240-12605-1 MS	1	D	20:15	X	X	X	X												
CCV 240-50113/19	1		20:33	X	X	X	X												
CCB 240-50113/20	1		20:50	X	X	X	X												

Prep Types

D = Dissolved

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: SIMON Method: 9056A

Start Date: 06/25/2012 10:57 End Date: 06/25/2012 15:36

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				B r	C L -	F	S O 4														
ZZZZZZ			10:57																		
ZZZZZZ			11:13																		
CCV 240-48696/3	1		11:30	X	X	X	X														
CCB 240-48696/4	1		11:46	X	X	X	X														
MB 240-48696/5	1	T	12:02	X	X	X	X														
LCS 240-48696/6	1	T	12:19	X	X	X	X														
ZZZZZZ			12:35																		
240-12605-3	1	D	12:52	X	X	X	X														
240-12605-2	1	D	13:08	X	X	X	X														
240-12605-2 MS	1	D	13:25	X	X	X	X														
ZZZZZZ			13:41																		
ZZZZZZ			13:57																		
CCV 240-48696/13	1		14:14	X	X	X	X														
CCB 240-48696/14	1		14:30	X	X	X	X														
ZZZZZZ			14:47																		
ZZZZZZ			15:03																		
CCV 240-48696/17			15:20																		
CCB 240-48696/18			15:36																		

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: SIMON Method: 9056A

Start Date: 06/25/2012 10:57 End Date: 06/25/2012 15:36

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				N - N o 2	N O 3																
ZZZZZZ			10:57																		
ZZZZZZ			11:13																		
CCV 240-48697/3	1		11:30	X	X																
CCB 240-48697/4	1		11:46	X	X																
MB 240-48697/5	1	T	12:02	X	X																
LCS 240-48697/6	1	T	12:19	X	X																
240-12605-1	1	T	12:35	X	X																
240-12605-3	1	D	12:52	X	X																
240-12605-2	1	D	13:08	X	X																
240-12605-2 MS	1	D	13:25	X	X																
ZZZZZZ			13:41																		
ZZZZZZ			13:57																		
CCV 240-48697/13	1		14:14	X	X																
CCB 240-48697/14	1		14:30	X	X																
ZZZZZZ			14:47																		
ZZZZZZ			15:03																		
CCV 240-48697/17			15:20																		
CCB 240-48697/18			15:36																		

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: STEVE Method: SM 2320B

Start Date: 06/29/2012 11:34 End Date: 06/29/2012 21:04

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A l k	B A L K C C	C a r A l k													
ZZZZZZ			11:34																
RINSE 240-49573/2			11:43																
ZZZZZZ			11:57																
LCS 240-49573/4	1	T	12:05	X															
MB 240-49573/5	1	T	12:11		X	X													
ZZZZZZ			12:15																
ZZZZZZ			12:35																
ZZZZZZ			12:39																
ZZZZZZ			12:54																
ZZZZZZ			13:11																
ZZZZZZ			13:20																
ZZZZZZ			13:33																
ZZZZZZ			13:45																
ZZZZZZ			13:56																
ZZZZZZ			14:05																
ZZZZZZ			14:19																
ZZZZZZ			14:22																
ZZZZZZ			14:38																
ZZZZZZ			14:54																
ZZZZZZ			15:10																
ZZZZZZ			15:14																
ZZZZZZ			15:18																
ZZZZZZ			15:34																
ZZZZZZ			15:39																
ZZZZZZ			15:49																
ZZZZZZ			15:59																
ZZZZZZ			16:08																
ZZZZZZ			16:12																
ZZZZZZ			16:24																
ZZZZZZ			16:35																
240-12605-1	1	T	16:45		X	X													
240-12605-2	1	T	16:56		X	X													
ZZZZZZ			17:05																
ZZZZZZ			17:11																
ZZZZZZ			17:20																
ZZZZZZ			17:29																
ZZZZZZ			17:46																
ZZZZZZ			18:03																
ZZZZZZ			18:06																
ZZZZZZ			18:21																
ZZZZZZ			18:26																
ZZZZZZ			18:41																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: STEVE Method: SM 2320B

Start Date: 06/29/2012 11:34 End Date: 06/29/2012 21:04

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A l k	B A L K C C	C a r A l k															
ZZZZZZ			18:53																		
ZZZZZZ			19:05																		
ZZZZZZ			19:21																		
ZZZZZZ			19:37																		
ZZZZZZ			19:51																		
ZZZZZZ			20:03																		
ZZZZZZ			20:18																		
ZZZZZZ			20:21																		
ZZZZZZ			20:36																		
ZZZZZZ			20:51																		
ZZZZZZ			21:01																		
ZZZZZZ			21:04																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: STEVE Method: SM 2320B

Start Date: 07/03/2012 10:44 End Date: 07/03/2012 21:39

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A l k	B A L K C C	C a r A l k													
ZZZZZZ			10:44																
RINSE 240-49870/2			10:53																
ZZZZZZ			11:04																
LCS 240-49870/4	1	T	11:13	X															
MB 240-49870/5	1	T	11:19		X	X													
ZZZZZZ			11:22																
240-12605-3	1	T	16:43		X	X													
ZZZZZZ			16:58																
ZZZZZZ			17:03																
ZZZZZZ			17:17																
ZZZZZZ			17:32																
ZZZZZZ			17:50																
ZZZZZZ			18:09																
ZZZZZZ			18:21																
ZZZZZZ			18:32																
ZZZZZZ			18:49																
ZZZZZZ			18:52																
ZZZZZZ			19:07																
ZZZZZZ			19:22																
ZZZZZZ			19:34																
ZZZZZZ			19:49																
ZZZZZZ			20:04																
ZZZZZZ			20:14																
ZZZZZZ			20:24																
ZZZZZZ			20:33																
ZZZZZZ			20:43																
ZZZZZZ			20:52																
ZZZZZZ			20:55																
ZZZZZZ			21:03																
ZZZZZZ			21:11																
ZZZZZZ			21:19																
ZZZZZZ			21:27																
ZZZZZZ			21:36																
ZZZZZZ			21:39																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: DAVE Method: SM4500 NH3 -F

Start Date: 07/09/2012 07:24 End Date: 07/09/2012 13:23

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N H 3															
IC 240-50241/1			07:24	X															
IC 240-50241/2			07:24	X															
IC 240-50241/3			07:24	X															
IC 240-50241/4			07:24	X															
ICV 240-50241/5	5		07:24	X															
ICB 240-50241/6	1		07:24	X															
MB 240-50241/7	1	T	07:28	X															
LCS 240-50241/8	5	T	07:29	X															
ZZZZZZ			08:35																
240-12605-2	1	D	08:35	X															
240-12605-3	1	D	08:35	X															
ZZZZZZ			08:35																
ZZZZZZ			08:44																
ZZZZZZ			08:47																
ZZZZZZ			08:50																
ZZZZZZ			08:54																
CCV 240-50241/17	1		09:10	X															
CCB 240-50241/18	1		09:19	X															
ZZZZZZ			09:27																
ZZZZZZ			10:28																
ZZZZZZ			10:28																
ZZZZZZ			10:29																
ZZZZZZ			10:29																
ZZZZZZ			10:29																
ZZZZZZ			10:29																
ZZZZZZ			10:29																
ZZZZZZ			10:29																
ZZZZZZ			10:29																
CCV 240-50241/29			11:33																
CCB 240-50241/30			11:33																
ZZZZZZ			11:53																
ZZZZZZ			11:56																
ZZZZZZ			12:43																
ZZZZZZ			12:43																
CCV 240-50241/35			13:23																
CCB 240-50241/36			13:23																

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Instrument ID: DAVE Method: SM4500 NH3 -F

Start Date: 07/10/2012 12:44 End Date: 07/10/2012 15:01

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N H 3															
ICB 240-50397/6	1		12:44	X															
ZZZZZZ			12:45																
ZZZZZZ			12:45																
IC 240-50397/1			12:54	X															
IC 240-50397/2			12:54	X															
IC 240-50397/3			12:54	X															
IC 240-50397/4			12:54	X															
ICV 240-50397/5	5		12:54	X															
MB 240-50305/1-A	1	D	12:54	X															
LCS 240-50305/2-A	5	D	12:54	X															
240-12605-1	1	D	12:56	X															
240-12605-1 MS	1	D	13:05	X															
240-12605-1 MSD	1	D	13:08	X															
ZZZZZZ			13:19																
ZZZZZZ			13:23																
ZZZZZZ			13:24																
CCV 240-50397/17	1		13:27	X															
CCB 240-50397/18	1		13:40	X															
ZZZZZZ			13:56																
ZZZZZZ			14:03																
ZZZZZZ			14:08																
ZZZZZZ			14:24																
ZZZZZZ			14:24																
ZZZZZZ			14:24																
ZZZZZZ			14:26																
ZZZZZZ			14:34																
ZZZZZZ			14:37																
ZZZZZZ			14:41																
CCV 240-50397/29			14:53																
CCB 240-50397/30			15:01																

Prep Types

D = Dissolved

TestAmerica Laboratory

KoneLab 200 Barney

(P) 365.1, 4500 P-E

(CL) 325.2, 4500 CL-

(S04) 375.4, 9038

6/29/2012 14:11

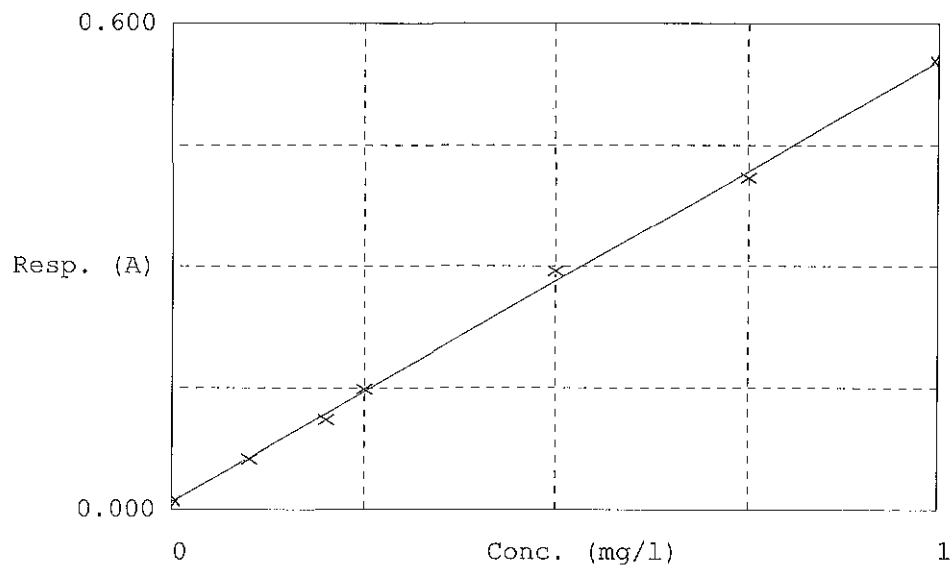
Test TPO4

Accepted 6/29/2012 14:11

Factor 1.84
Bias 0.010

Coeff. of det. 0.998841

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	TP-0	0.011	0.0017	0.0000	
2	TP-1	0.063	0.0969	0.1000	
3	TP-2	0.111	0.1866	0.2000	
4	TP-3	0.149	0.2556	0.2500	
5	TP-4	0.294	0.5224	0.5000	
6	TP-5	0.410	0.7356	0.7500	
7	TP-6	0.554	1.0011	1.0000	
8	A-CCV TP(contro	0.272	0.4813	0.5000	
9	B-CCB TP(contro	0.004	-0.0119	0.0000	

TestAmerica Laboratory
KoneLab 200 Barney

Date : 6/29/2012

Time : 15:36

Test
Unit

TP04
mg/l

prep 49375
Analytical 49474

Sample ID:	Result	Dilut	Man.dilut	Resp.	Date and Time
A-CCV TP	0.481			0.272	6/29/2012 14:11
B-CCB TP	-0.012			0.004	6/29/2012 14:11
A-CCV TP	0.479			0.270	6/29/2012 14:24
B-CCB TP	-0.012			0.004	6/29/2012 14:24
mb 240-49375/10-	-0.013			0.003	6/29/2012 14:24
lcs 240-49375/11	0.583			0.327	6/29/2012 14:24
240-12605-f-2-a	0.006			0.013	6/29/2012 14:24
240-12605-f-2-b	0.516			0.290	6/29/2012 14:24
240-12605-f-2-c	0.508			0.286	6/29/2012 14:24
240-12605-f-3-a	-0.002			0.009	6/29/2012 14:24
240-12529-f-1-a	-0.001			0.009	6/29/2012 14:24
240-12529-f-3-a	-0.010			0.004	6/29/2012 14:24
240-12529-f-4-a	-0.006			0.007	6/29/2012 14:24
240-12529-f-5-a	-0.009			0.005	6/29/2012 14:24
A-CCV TP	0.485			0.274	6/29/2012 14:27
B-CCB TP	-0.013			0.003	6/29/2012 14:27
240-12529-f-6-a	0.003			0.012	6/29/2012 14:27
240-12553-f-1-a	0.005			0.013	6/29/2012 14:27
240-12553-f-2-a	-0.007			0.006	6/29/2012 14:27
240-12553-f-3-a	-0.006			0.007	6/29/2012 14:27
240-12704-b-1-a	0.029			0.026	6/29/2012 14:27
180-11918-f-1-a	0.090			0.059	6/29/2012 14:27
180-11887-a-1-a	0.090			0.059	6/29/2012 14:27
180-11887-a-2-a	0.255			0.149	6/29/2012 14:27
A-CCV TP	0.495			0.279	6/29/2012 14:30
B-CCB TP	-0.015			0.002	6/29/2012 14:30
180-11887-a-3-a	0.079			0.053	6/29/2012 14:30
180-11918-f-6-a	0.049			0.037	6/29/2012 14:30
180-11887-a-4-a	0.021			0.021	6/29/2012 14:30
A-CCV TP	0.483			0.272	6/29/2012 14:31
B-CCB TP	-0.013			0.003	6/29/2012 14:31
180-11918-f-3-a	1.262	1+4.0		0.147	6/29/2012 14:38
A-CCV TP	0.501			0.282	6/29/2012 14:39
B-CCB TP	-0.011			0.004	6/29/2012 14:39
A-CCV TP	0.487			0.275	6/29/2012 14:52
B-CCB TP	-0.012			0.003	6/29/2012 14:52
A-CCV TP	0.494			0.279	6/29/2012 14:53
B-CCB TP	-0.010			0.005	6/29/2012 14:53
A-CCV TP	0.506			0.285	6/29/2012 15:06
B-CCB TP	-0.011			0.004	6/29/2012 15:06
A-CCV TP	0.499			0.281	6/29/2012 15:07
B-CCB TP	-0.010			0.005	6/29/2012 15:07
A-CCV TP	0.483			0.272	6/29/2012 15:31
B-CCB TP	-0.010			0.004	6/29/2012 15:31
180-11918-f-2-a	5.156	1+9.0		0.290	6/29/2012 15:31
A-CCV TP	0.492			0.277	6/29/2012 15:32
B-CCB TP	-0.010			0.005	6/29/2012 15:32

TestAmerica Laboratory

KoneLab 200 Barney

(P) 365.1, 4500 P-E

(CL) 325.2, 4500 CL-

(S04) 375.4, 9038

6/29/2012 15:36

Test: TPO4

Sample Id	Result	Dil. 1 +	Response	Errors
A-CCV TP	0.481	0.0	0.272	
B-CCB TP	-0.012	0.0	0.004	
A-CCV TP	0.479	0.0	0.270	
B-CCB TP	-0.012	0.0	0.004	
mb 240-49375/10-	-0.013	0.0	0.003	
lcs 240-49375/11	0.583	0.0	0.327	
240-12605-f-2-a	0.006	0.0	0.013	
240-12605-f-2-b	0.516	0.0	0.290	
240-12605-f-2-c	0.508	0.0	0.286	
240-12605-f-3-a	-0.002	0.0	0.009	
240-12529-f-1-a	-0.001	0.0	0.009	
240-12529-f-3-a	-0.010	0.0	0.004	
240-12529-f-4-a	-0.006	0.0	0.007	
240-12529-f-5-a	-0.009	0.0	0.005	
A-CCV TP	0.485	0.0	0.274	
B-CCB TP	-0.013	0.0	0.003	
240-12529-f-6-a	0.003	0.0	0.012	
240-12553-f-1-a	0.005	0.0	0.013	
240-12553-f-2-a	-0.007	0.0	0.006	
240-12553-f-3-a	-0.006	0.0	0.007	
240-12704-b-1-a	0.029	0.0	0.026	
180-11918-f-1-a	0.090	0.0	0.059	
180-11918-f-2-a	2.138	0.0	1.172	R Dil. limit high
180-11918-f-3-a	1.131	0.0	0.625	R Dil. limit high
180-11887-a-1-a	0.090	0.0	0.059	
180-11887-a-2-a	0.255	0.0	0.149	
A-CCV TP	0.495	0.0	0.279	
B-CCB TP	-0.015	0.0	0.002	
180-11887-a-3-a	0.079	0.0	0.053	
180-11918-f-6-a	0.049	0.0	0.037	
180-11887-a-4-a	0.021	0.0	0.021	
A-CCV TP	0.483	0.0	0.272	
B-CCB TP	-0.013	0.0	0.003	
180-11918-f-2-a	5.131	4.0	0.568	R Test limit high
180-11918-f-3-a	1.262	4.0	0.147	R
A-CCV TP	0.501	0.0	0.282	
B-CCB TP	-0.011	0.0	0.004	
A-CCV TP	0.487	0.0	0.275	
B-CCB TP	-0.012	0.0	0.003	
180-11918-f-2-a	12.512	9.0	0.690	R Test limit high
A-CCV TP	0.494	0.0	0.279	
B-CCB TP	-0.010	0.0	0.005	
A-CCV TP	0.506	0.0	0.285	
B-CCB TP	-0.011	0.0	0.004	
180-11918-f-2-a	4.880	19.0	0.143	R
A-CCV TP	0.499	0.0	0.281	
B-CCB TP	-0.010	0.0	0.005	
A-CCV TP	0.483	0.0	0.272	
B-CCB TP	-0.010	0.0	0.004	
180-11918-f-2-a	4.963	19.0	0.145	R
180-11918-f-2-a	5.156	9.0	0.290	
A-CCV TP	0.492	0.0	0.277	
B-CCB TP	-0.010	0.0	0.005	

Test results

Aquakem 7.1AQ2

Page: 2

TestAmerica Laboratory

KoneLab 200 Barney

(P) 365.1, 4500 P-E

(CL) 325.2, 4500 CL-

(S04) 375.4, 9038

6/29/2012 15:36

Test: TP04

Sample Id	Result	Dil. 1 +	Response	$\hat{\sigma}^2$
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N	29			
Mean	1.357			
SD	2.7575			
CV%	203.21			

TestAmerica Laboratory
KoneLab 200 Barney

Date : 6/29/2012

Time : 16:06

Test
UnitTPO4
mg/l

Filtration 49413
prep 49419
Analytical 49478

Sample ID:	Result	Dilut	Man.dilut	Resp.	Date and Time
A-CCV TP	0.481			0.271	6/29/2012 16:04
B-CCB TP	-0.012			0.004	6/29/2012 16:04
mb 240-49413/1-b	-0.013			0.003	6/29/2012 16:04
lcs 240-49413/2-	0.579			0.325	6/29/2012 16:04
240-12605-d-1-d	-0.005			0.007	6/29/2012 16:04
240-12605-d-1-e	0.545			0.306	6/29/2012 16:04
240-12605-d-1-f	0.549			0.308	6/29/2012 16:04
A-CCV TP	0.486			0.274	6/29/2012 16:06
B-CCB TP	-0.012			0.003	6/29/2012 16:06

Test results

Aquakem 7.1AQ2

Page: 1

TestAmerica Laboratory

KoneLab 200 Barney

(P) 365.1, 4500 P-E

(CL) 325.2, 4500 CL-

(S04) 375.4, 9038

6/29/2012 16:06

Test: TPO4

Sample Id	Result	Dil. 1 +	Response	Errors
A-CCV TP	0.481	0.0	0.271	
B-CCB TP	-0.012	0.0	0.004	
mb 240-49413/1-b	-0.013	0.0	0.003	
lcs 240-49413/2-	0.579	0.0	0.325	
240-12605-d-1-d	-0.005	0.0	0.007	
240-12605-d-1-e	0.545	0.0	0.306	
240-12605-d-1-f	0.549	0.0	0.308	
A-CCV TP	0.486	0.0	0.274	
B-CCB TP	-0.012	0.0	0.003	

N	5
Mean	0.331
SD	0.3108
CV%	93.88

TestAmerica Laboratory

KoneLab 200 Barney

(P) 365.1, 4500 P-E

(CL) 325.2, 4500 CL-

(S04) 375.4, 9038

6/29/2012 14:11

Test TP04

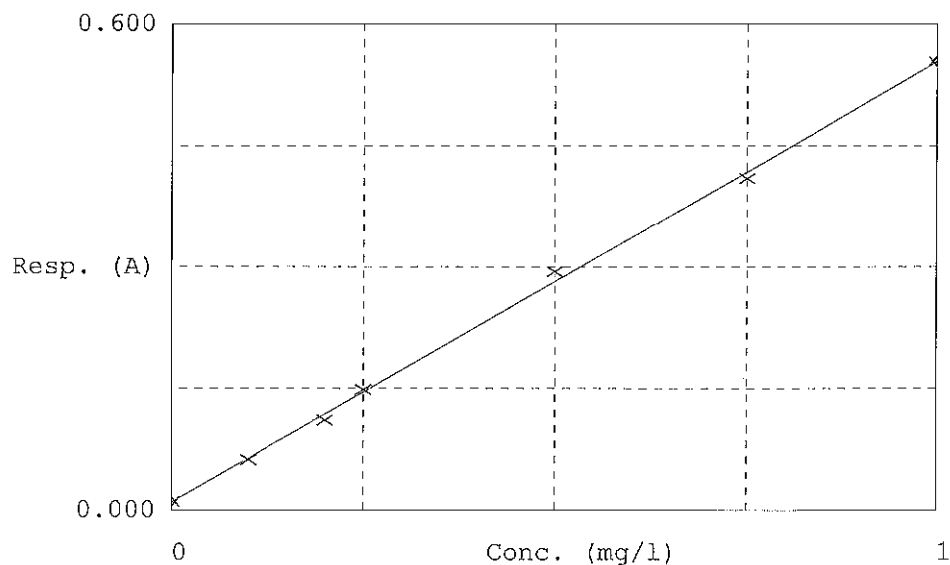
f. Hutton 49413
 prep 49419
 Analytical 49478

Accepted 6/29/2012 14:11

Factor 1.84
 Bias 0.010

Coeff. of det. 0.998841

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	TP-0	0.011	0.0017	0.0000	
2	TP-1	0.063	0.0969	0.1000	
3	TP-2	0.111	0.1866	0.2000	
4	TP-3	0.149	0.2556	0.2500	
5	TP-4	0.294	0.5224	0.5000	
6	TP-5	0.410	0.7356	0.7500	
7	TP-6	0.554	1.0011	1.0000	
8	A-CCV TP{contro	0.272	0.4813	0.5000	
9	B-CCB TP{contro	0.004	-0.0119	0.0000	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\3240-0010344-003.d
Lims ID: STD1 Client ID:
Inject. Date: 30-May-2012 06:59:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0010344-003
Misc. Info.: 3 STD1
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 3
Sublist: chrom-300_G*sub2
Detector: IC 3240-0010344-003
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:22 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:42:16

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.917	2.908	0.009	532337	0	
2 Chloride	4.092	4.142	-0.050	10402031	0	
3 Nitrite as N	4.883	4.858	0.025	1040589	0.0553	
4 Bromide	6.100	6.033	0.067	616280	0	
5 Nitrate as N	7.167	7.008	0.159	887573	0.0420	
6 Orthophosphate	9.908	9.808	0.100	19038	0.0550	M
7 Sulfate	12.217	12.117	0.100	6183113	0	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 06-Jun-2012 10:28:22

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\3240-0010344-003.d

Injection Date: 30-May-2012 06:59:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

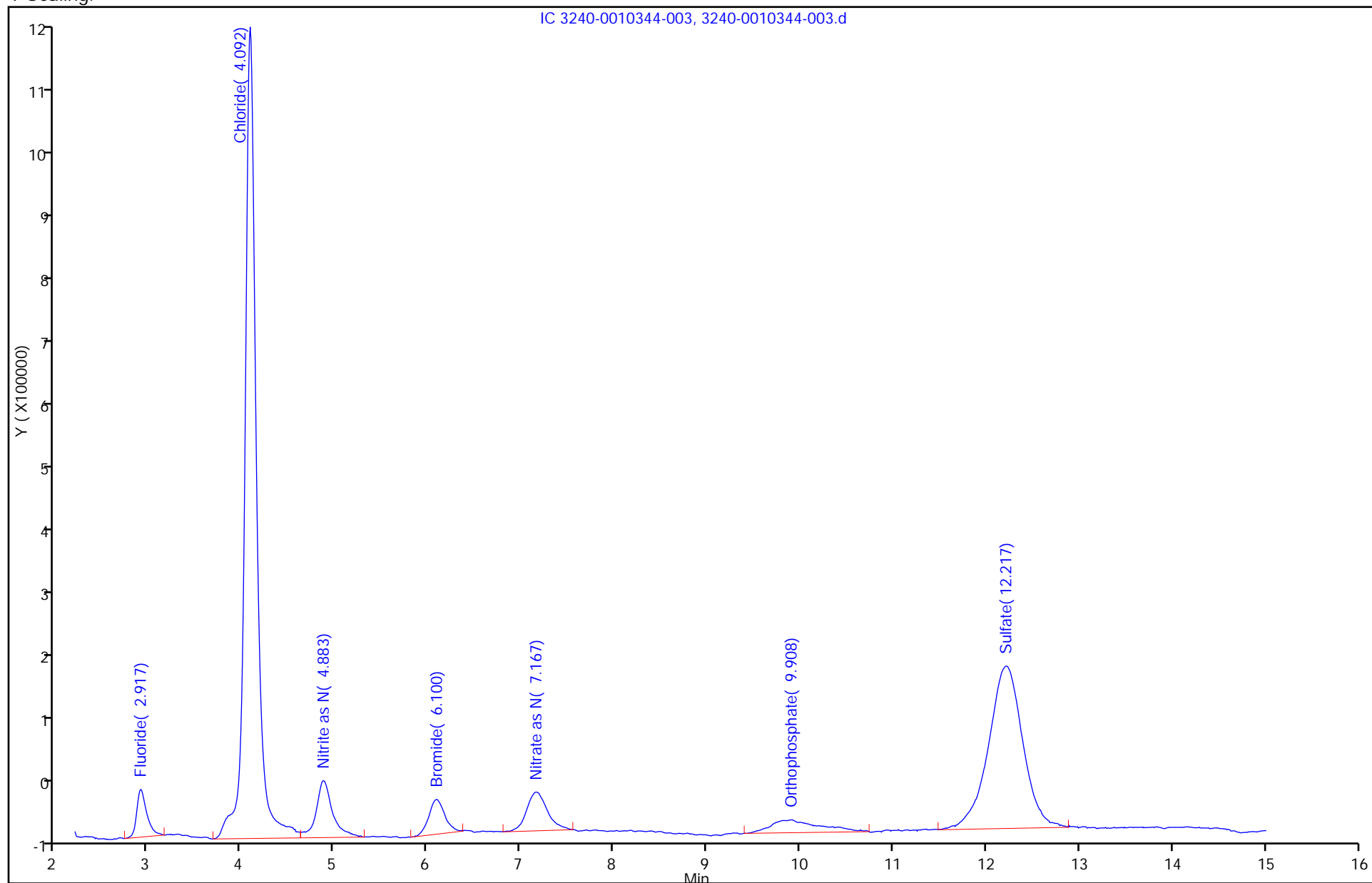
Lims Batch ID: 45592

Lims Sample ID: 3

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:

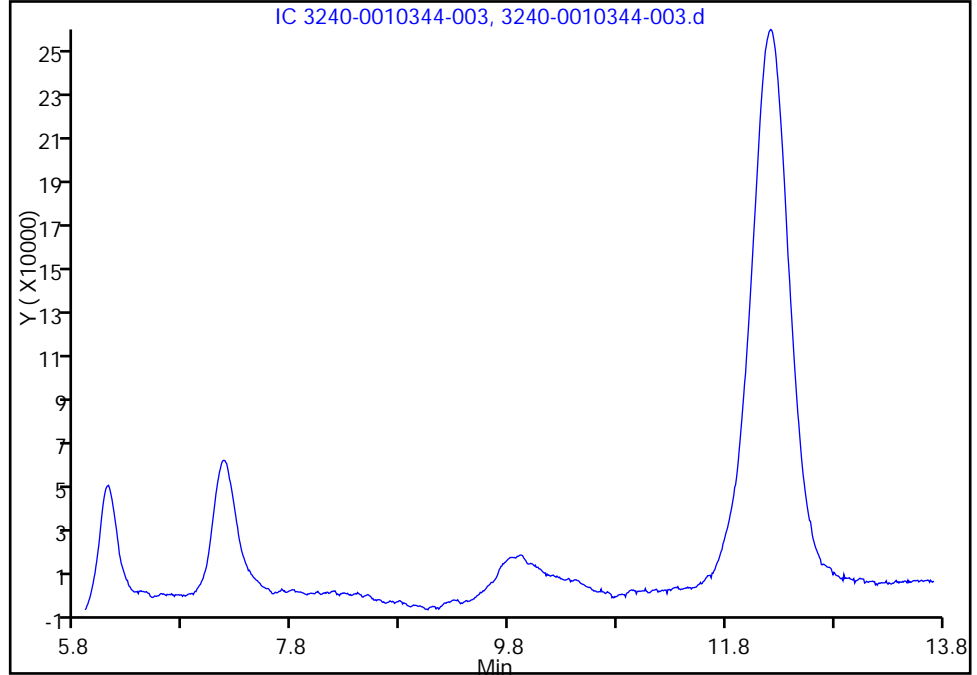


Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\3240-0010344-003.d
Injection Date: 30-May-2012 06:59:00 Limit Group: WET IC SH ICAL
Client ID: Instrument ID: GARFUNKEL
Lims Batch ID: 45592 Lims Sample ID: 3
Operator ID: Injection Vol: 25.00 ul

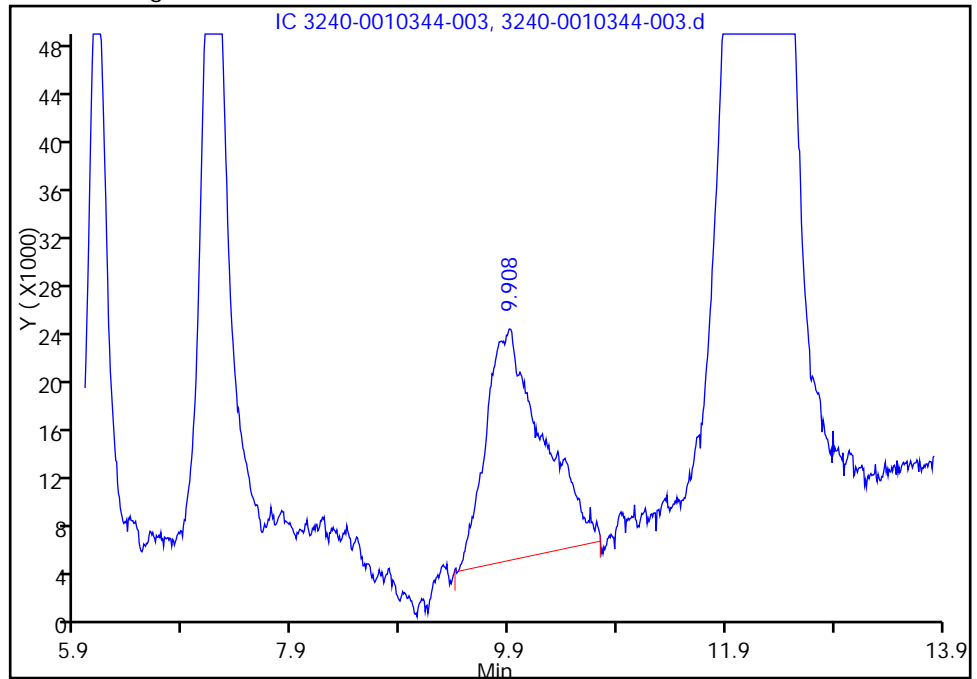
6 Orthophosphate, Signal: 1, Type: quant, RT: 9.81

Not Detected
Expected RT: 9.81

Processing Integration Results



Manual Integration Results



RT: 9.91
Response: 19038
Amount: 0.055004

Reviewer: grossmanl, 30-May-2012 10:42:16

Audit Action: Manually Integrated

Audit Reason: Baseline Event

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\4240-0010344-004.d
Lims ID: STD2 Client ID:
Inject. Date: 30-May-2012 07:16:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0010344-004
Misc. Info.: 4 STD2
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 4
Sublist: chrom-300_G*sub2
Detector: IC 4240-0010344-004
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:23 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:42:52

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.908	2.908	0.0	3067270	0	
2 Chloride	4.092	4.142	-0.050	48883256	0	
3 Nitrite as N	4.875	4.858	0.017	4426995	0.2352	
4 Bromide	6.075	6.033	0.042	3619511	0	
5 Nitrate as N	7.117	7.008	0.109	4902780	0.2319	
6 Orthophosphate	9.850	9.808	0.042	76549	0.2212	
7 Sulfate	12.192	12.117	0.075	31872285	0	

Report Date: 06-Jun-2012 10:28:24

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\4240-0010344-004.d

Injection Date: 30-May-2012 07:16:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

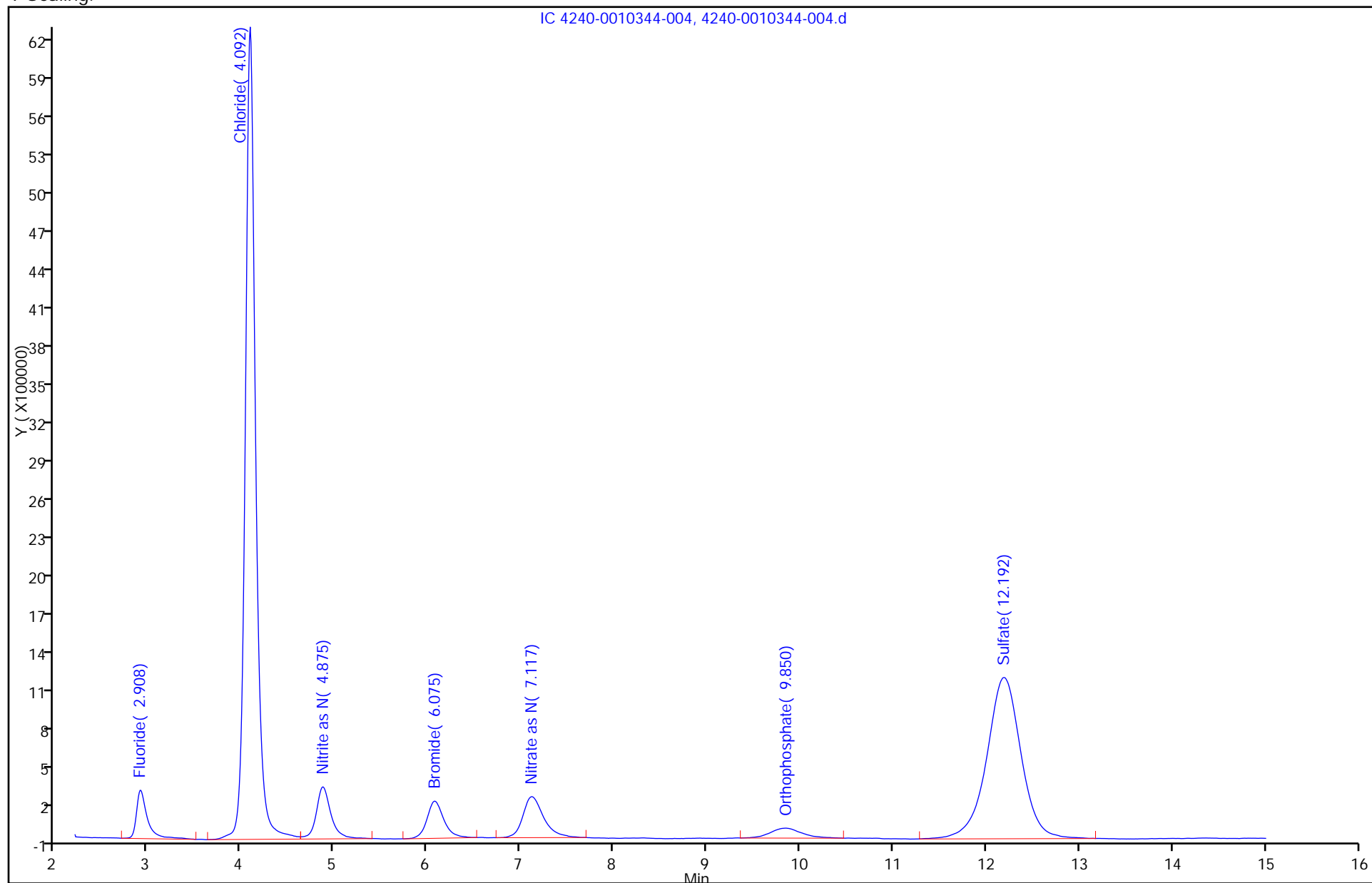
Lims Batch ID: 45592

Lims Sample ID: 4

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\5240-0010344-005.d
 Lims ID: STD3 Client ID:
 Inject. Date: 30-May-2012 07:34:00 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: 240-0010344-005
 Misc. Info.: 5 STD3
 Operator: Instrument ID: GARFUNKEL
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 45592 Lims Sample ID: 5
 Sublist: chrom-300_G*sub2
 Detector: IC 5240-0010344-005
 Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
 Last Update: 06-Jun-2012 10:28:24 Calib Date: 30-May-2012 09:18:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
 Limit Group: WET IC SH ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:43:23

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.908	2.908	0.0	6101101	0	
2 Chloride	4.092	4.142	-0.050	99690085	0	
3 Nitrite as N	4.867	4.858	0.009	9284252	0.4932	
4 Bromide	6.067	6.033	0.034	7601816	0	
5 Nitrate as N	7.092	7.008	0.084	10193652	0.4821	
6 Orthophosphate	9.825	9.808	0.017	160508	0.4637	
7 Sulfate	12.175	12.117	0.058	63957883	0	

Report Date: 06-Jun-2012 10:28:24

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\5240-0010344-005.d

Injection Date: 30-May-2012 07:34:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

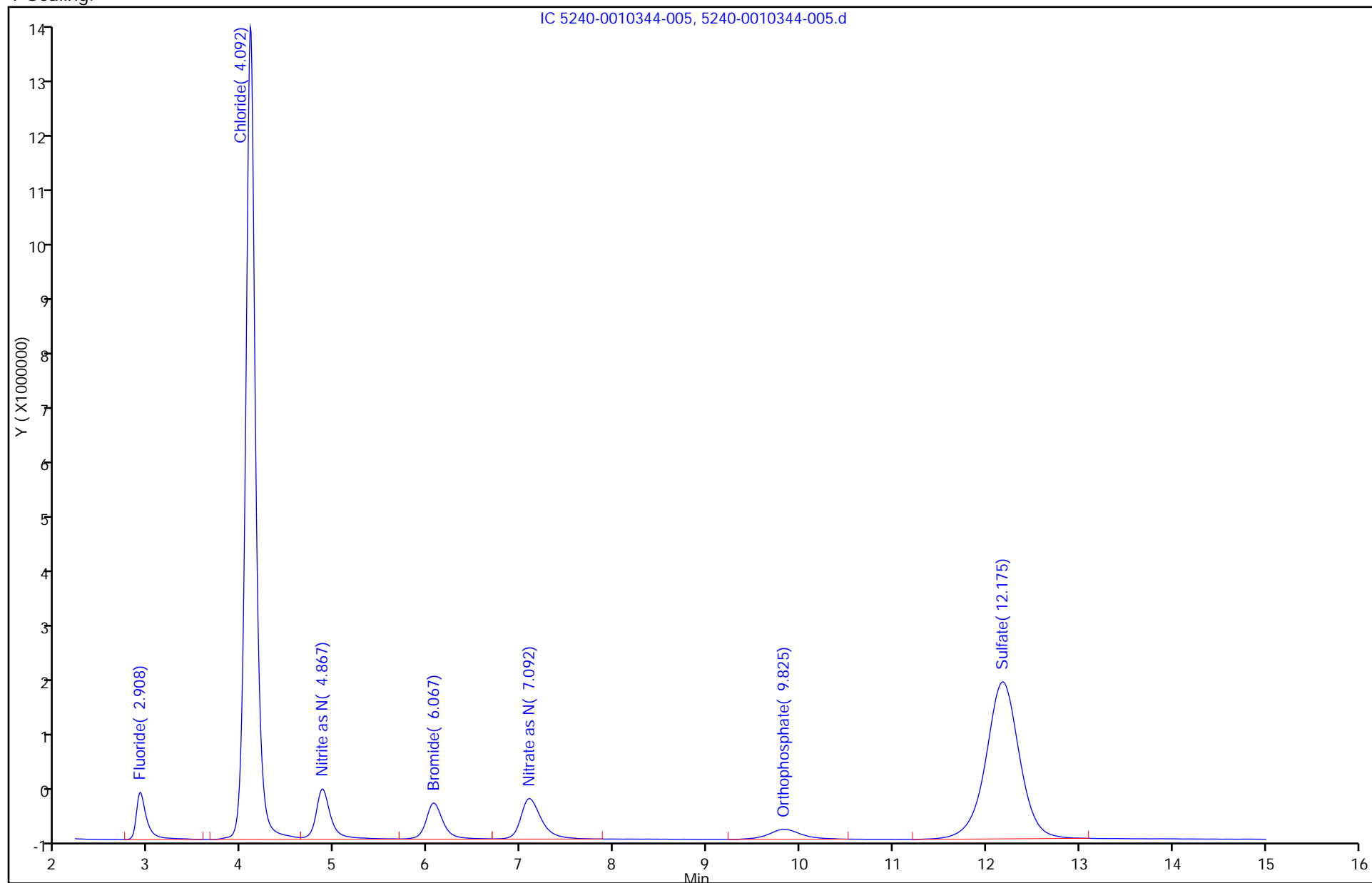
Lims Batch ID: 45592

Lims Sample ID: 5

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
IC, ICal Standard Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\6240-0010344-006.d
Lims ID: STD4 Client ID:
Inject. Date: 30-May-2012 07:51:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0010344-006
Misc. Info.: 6 STD4
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 6
Sublist: chrom-300_G*sub2
Detector: IC 6240-0010344-006
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:25 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:43:40

Start Cal Date: 30-May-2012 06:59:00

End Cal Date: 30-May-2012 09:18:00

Compound	Standard RRF/Amount	DLT RT	Ccal Amount	Ccal RF	Min. RRF	%D	Max. %D
3 Nitrite as N	18822979	0.009		17678317	0.000	-6.1	10.0
5 Nitrate as N	21144302	0.059		20227297	0.000	-4.3	10.0
6 Orthophosphate	346118	0.017		319748	0.000	-7.6	10.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\6240-0010344-006.d
 Lims ID: STD4 Client ID:
 Inject. Date: 30-May-2012 07:51:00 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: 240-0010344-006
 Misc. Info.: 6 STD4
 Operator: Instrument ID: GARFUNKEL
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 45592 Lims Sample ID: 6
 Sublist: chrom-300_G*sub2
 Detector: IC 6240-0010344-006
 Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
 Last Update: 06-Jun-2012 10:28:25 Calib Date: 30-May-2012 09:18:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
 Limit Group: WET IC SH ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:43:40

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.917	2.908	0.009	12311674	0	
2 Chloride	4.117	4.142	-0.025	209310990	0	
3 Nitrite as N	4.867	4.858	0.009	17678317	0.9392	
4 Bromide	6.058	6.033	0.025	14566444	0	
5 Nitrate as N	7.067	7.008	0.059	20227297	0.9566	
6 Orthophosphate	9.825	9.808	0.017	319748	0.9238	
7 Sulfate	12.167	12.117	0.050	131145304	0	

Report Date: 06-Jun-2012 10:28:25

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\6240-0010344-006.d

Injection Date: 30-May-2012 07:51:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

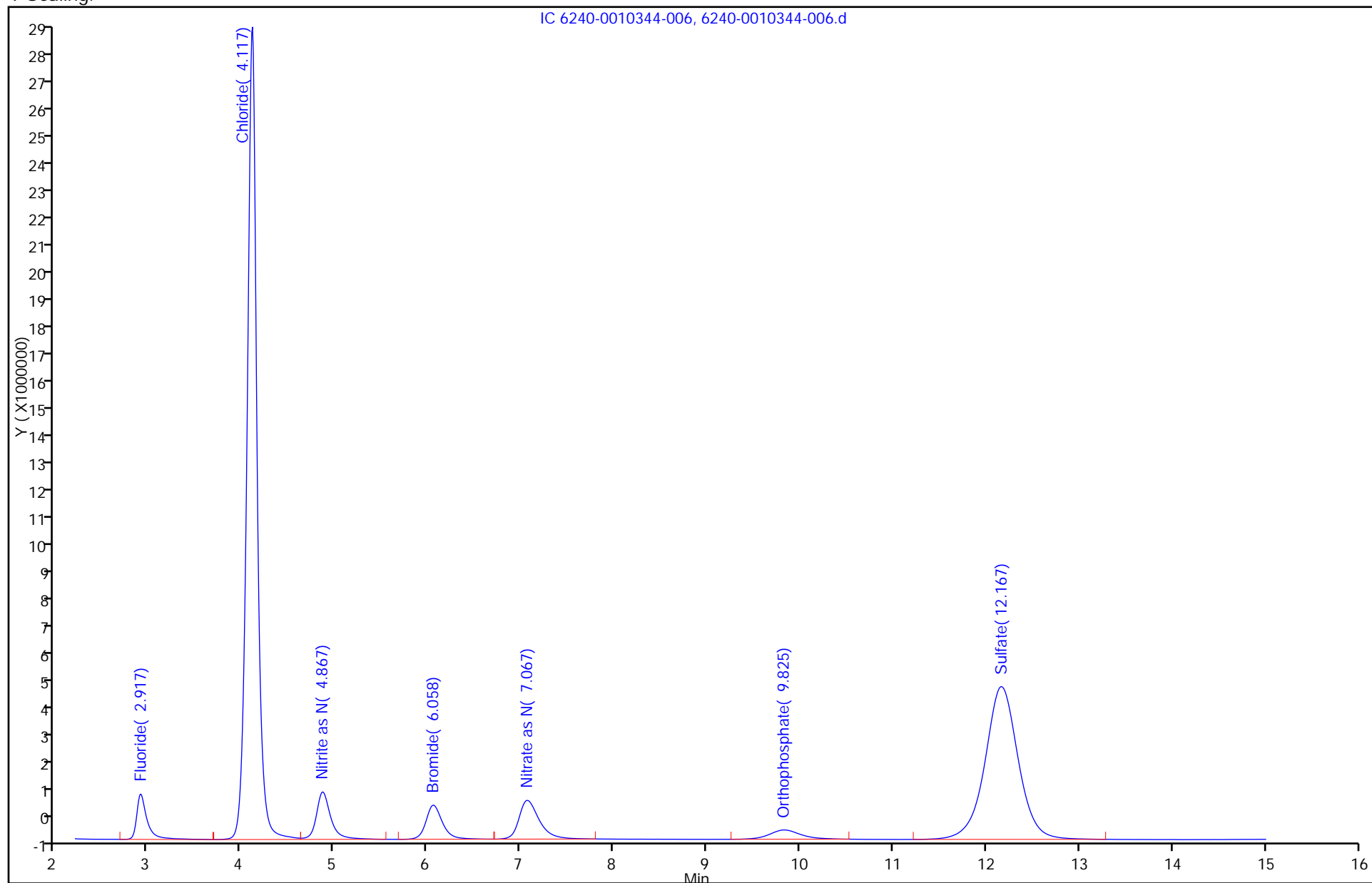
Lims Batch ID: 45592

Lims Sample ID: 6

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\7240-0010344-007.d
Lims ID: STD5 Client ID:
Inject. Date: 30-May-2012 08:09:00 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 5
Sample ID: 240-0010344-007
Misc. Info.: 7 STD5
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 7
Sublist: chrom-300_G*sub2
Detector: IC 7240-0010344-007
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:26 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:43:46

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.908	2.908	0.0	31396555	0	
2 Chloride	4.142	4.142	0.0	594515151	0	
3 Nitrite as N	4.858	4.858	0.0	45607277	2.42	
4 Bromide	6.033	6.033	0.0	37482553	0	
5 Nitrate as N	7.008	7.008	0.0	53161104	2.51	
6 Orthophosphate	9.808	9.808	0.0	852269	2.46	
7 Sulfate	12.117	12.117	0.0	358730884	0	

Report Date: 06-Jun-2012 10:28:26

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\7240-0010344-007.d

Injection Date: 30-May-2012 08:09:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

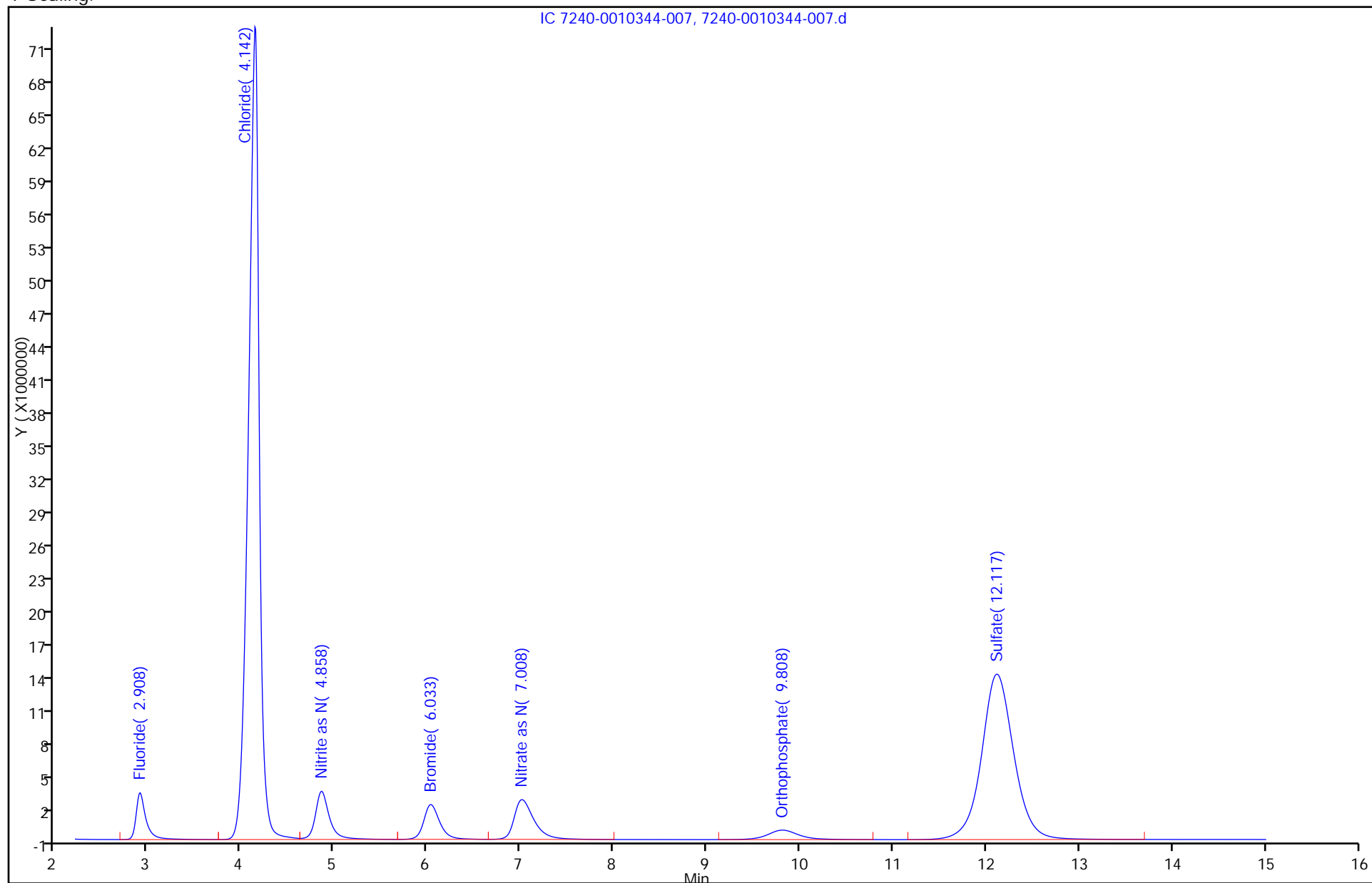
Lims Batch ID: 45592

Lims Sample ID: 7

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\8240-0010344-008.d
Lims ID: STD6 Client ID:
Inject. Date: 30-May-2012 08:26:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0010344-008
Misc. Info.: 8 STD6
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 8
Sublist: chrom-300_G*sub2
Detector: IC 8240-0010344-008
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:27 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:43:53

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.908	2.908	0.0	51740001	0	
2 Chloride	4.183	4.142	0.041	992526703	0	
3 Nitrite as N	4.867	4.858	0.009	74274846	3.95	
4 Bromide	6.025	6.033	-0.008	61221787	0	
5 Nitrate as N	6.992	7.008	-0.016	87096324	4.12	
6 Orthophosphate	9.800	9.808	-0.008	1388748	4.01	
7 Sulfate	12.075	12.117	-0.042	605702165	0	

Report Date: 06-Jun-2012 10:28:27

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\8240-0010344-008.d

Injection Date: 30-May-2012 08:26:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

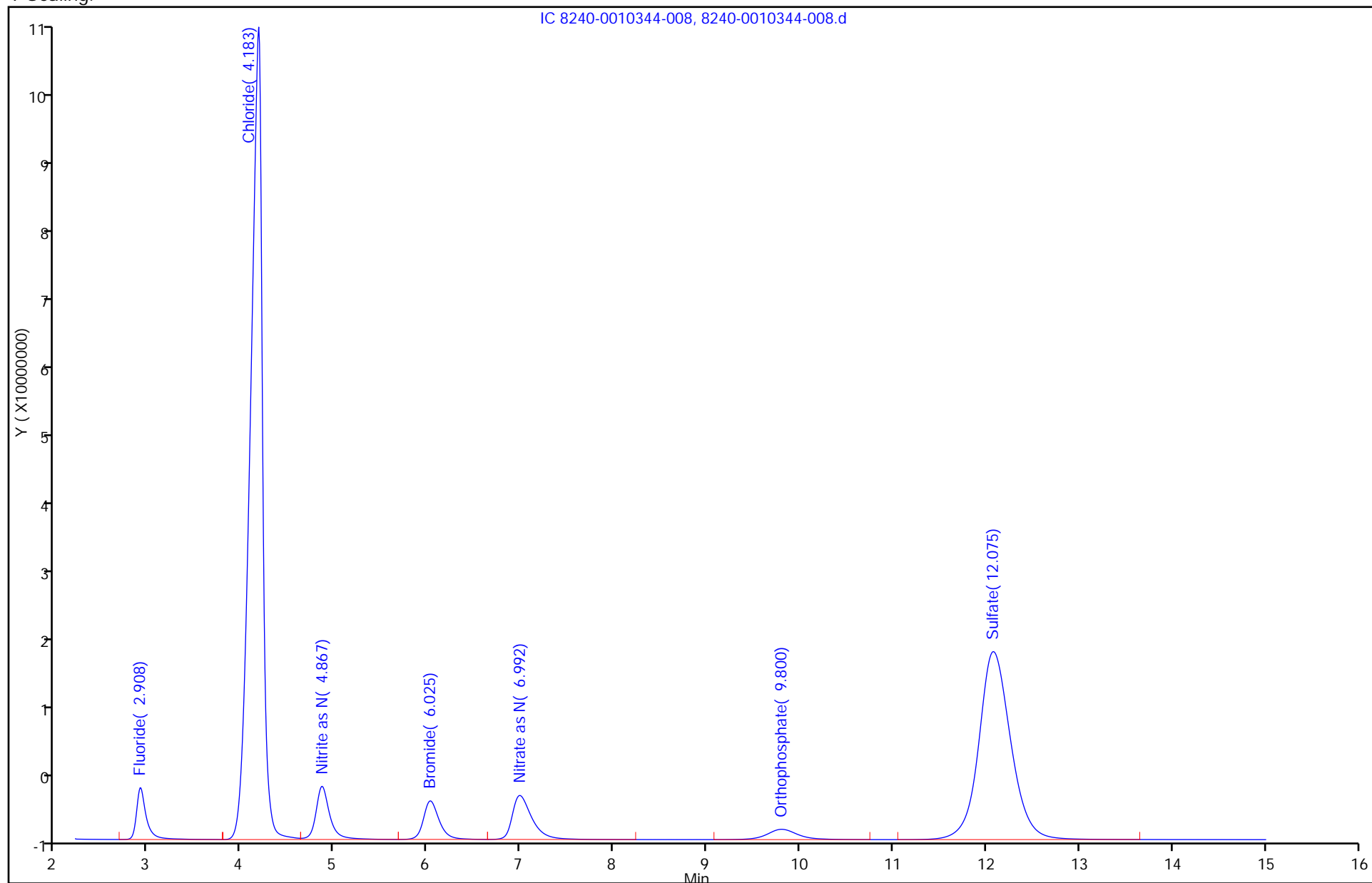
Lims Batch ID: 45592

Lims Sample ID: 8

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\9240-0010344-009.d
Lims ID: STD7 Client ID:
Inject. Date: 30-May-2012 08:43:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: 240-0010344-009
Misc. Info.: 9 STD7
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 9
Sublist: chrom-300_G*sub2
Detector: IC 9240-0010344-009
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:27 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:44:00

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.908	2.908	0.0	65616545	0	
2 Chloride	4.192	4.142	0.050	1266176079	0	
3 Nitrite as N	4.858	4.858	0.0	93906672	4.99	
4 Bromide	6.017	6.033	-0.016	77615548	0	
5 Nitrate as N	6.967	7.008	-0.041	111098308	5.25	
6 Orthophosphate	9.783	9.808	-0.025	1775851	5.13	
7 Sulfate	12.042	12.117	-0.075	782463095	0	

Report Date: 06-Jun-2012 10:28:28

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\9240-0010344-009.d

Injection Date: 30-May-2012 08:43:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

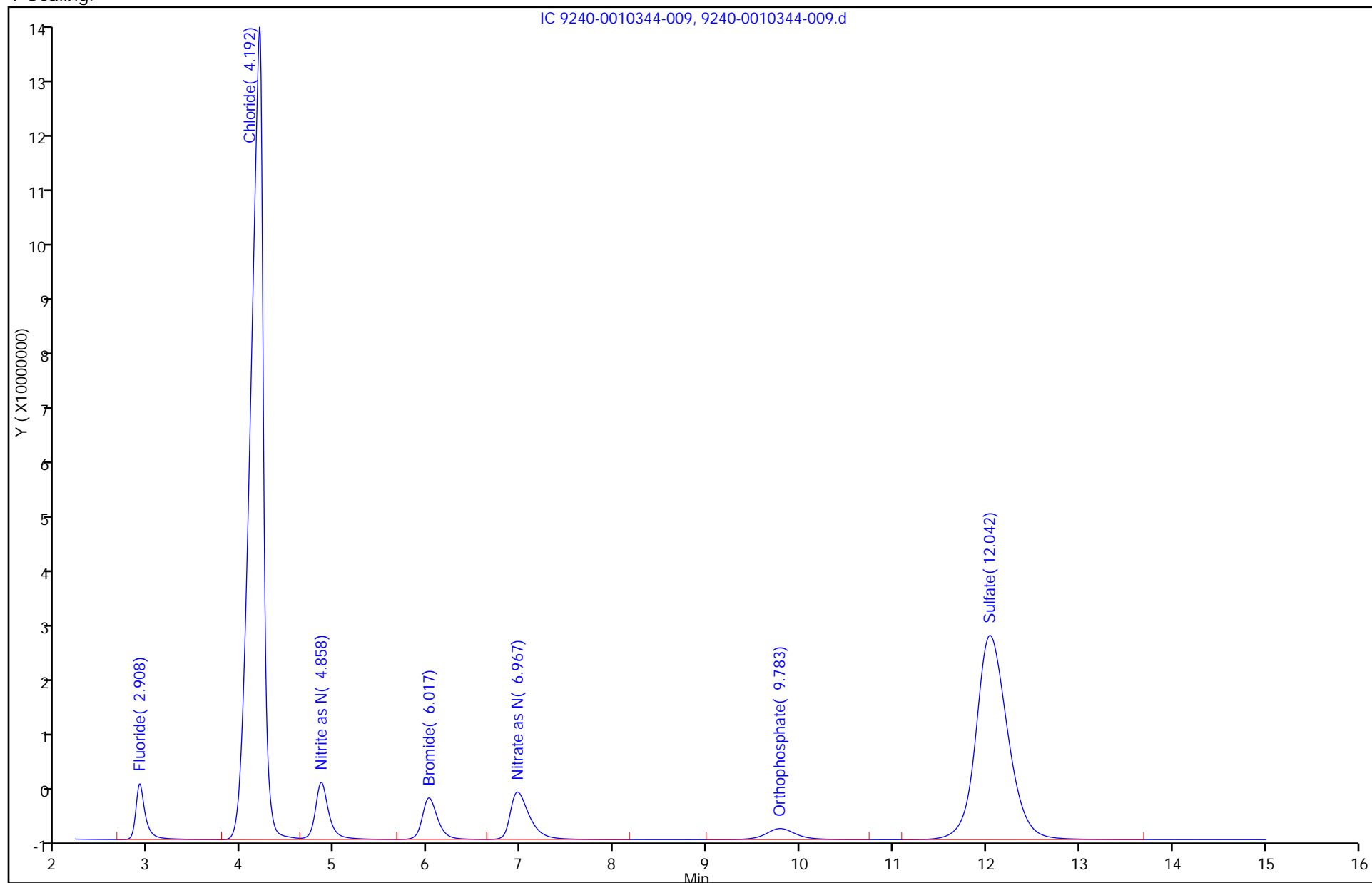
Lims Batch ID: 45592

Lims Sample ID: 9

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\10240-0010344-010.d
Lims ID: STD8 Client ID:
Inject. Date: 30-May-2012 09:01:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: 240-0010344-010
Misc. Info.: 10 STD8
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 10
Sublist: chrom-300_G*sub2
Detector: IC 10240-0010344-010
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:28 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:44:06

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.908	2.908	0.0	101288707	0	
2 Chloride	4.233	4.142	0.091	1948694605	0	
3 Nitrite as N	4.858	4.858	0.0	144493789	7.68	
4 Bromide	6.000	6.033	-0.033	120581372	0	
5 Nitrate as N	6.933	7.008	-0.075	173007033	8.18	
6 Orthophosphate	9.767	9.808	-0.041	2742214	7.92	
7 Sulfate	11.975	12.117	-0.142	1240265889	0	

Report Date: 06-Jun-2012 10:28:28

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\10240-0010344-010.d

Injection Date: 30-May-2012 09:01:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

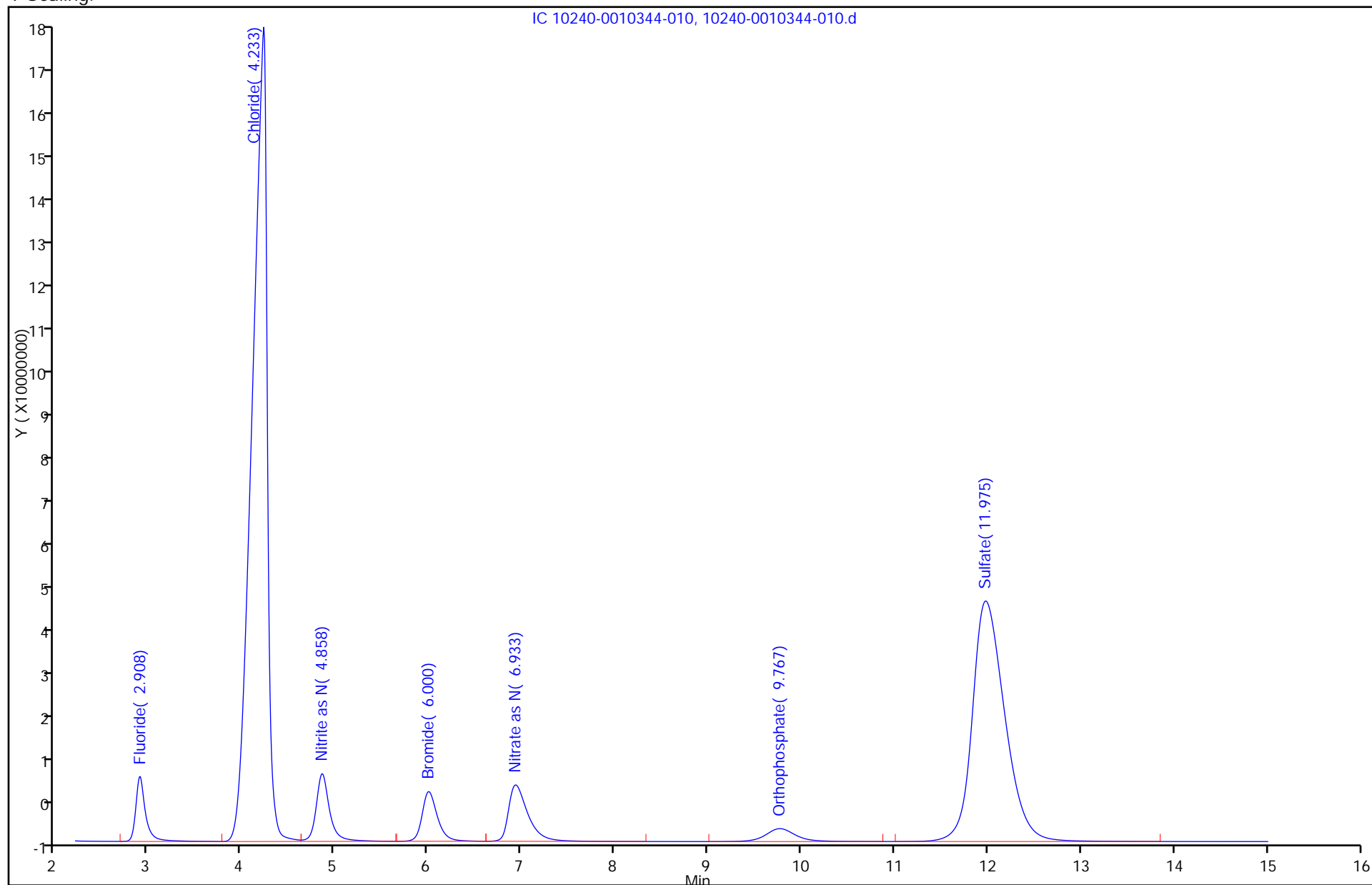
Lims Batch ID: 45592

Lims Sample ID: 10

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Lims ID: STD9 Client ID:
Inject. Date: 30-May-2012 09:18:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: 240-0010344-011
Misc. Info.: 11 STD9
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 11
Sublist: chrom-300_G*sub2
Detector: IC 11240-0010344-011
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:29 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 30-May-2012 10:44:13

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.917	2.908	0.009	138949308	0	
2 Chloride	4.275	4.142	0.133	2652453173	0	
3 Nitrite as N	4.875	4.858	0.017	197814355	10.5	
4 Bromide	6.008	6.033	-0.025	166937722	0	
5 Nitrate as N	6.925	7.008	-0.083	239957527	11.3	
6 Orthophosphate	9.767	9.808	-0.041	3784456	10.9	
7 Sulfate	11.933	12.117	-0.184	1721316920	0	

Report Date: 06-Jun-2012 10:28:29

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d

Injection Date: 30-May-2012 09:18:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

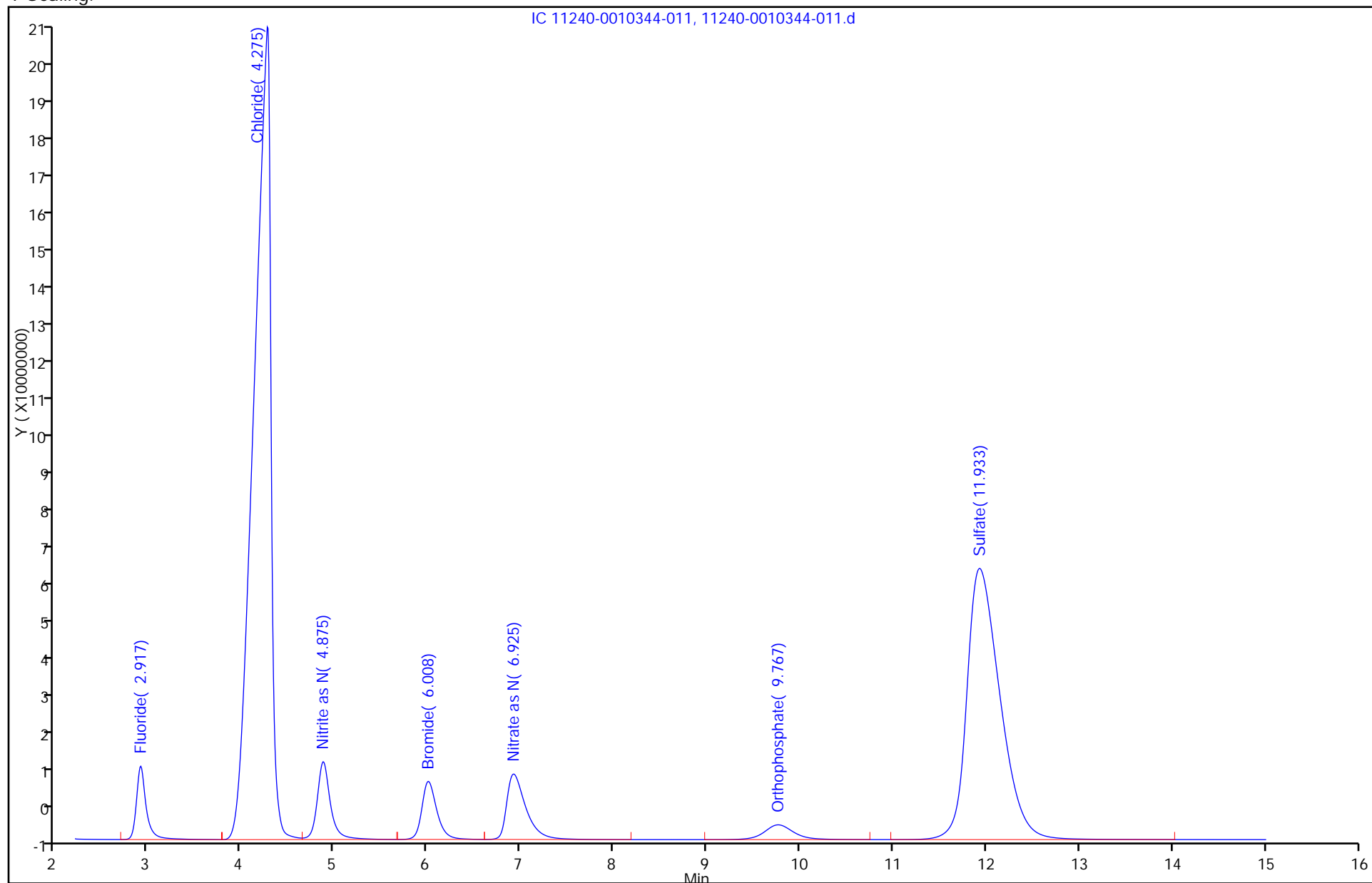
Lims Batch ID: 45592

Lims Sample ID: 11

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Initial Calibration Report

Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m

Instrument: GARFUNKEL

Lims Location: 240

Lock State: Unlocked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 06-Jun-2012 10:28:29

No.Compounds:7

Initial Calibration Batches

Ical Batch: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b

Inj Date : 30-May-2012 06:59:00, Sublist: chrom-300_G*sub2

Limit Group: WET IC SH ICAL

Detector 1 : IC 0001

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	b	M1	M2	%RSD/R^2
3 Nitrite as N	20811780	17707980	18568504	17678317	18242911	18568712	18781334	19265839	19781436		18822979		Avg 5.3
5 Nitrate as N	17751460	19611120	20387304	20227297	21264442	21774081	22219662	23067604	23995753		21144302		Avg 9.0
6 Orthophosphate	13853120	7244288	7899276	7496212	8003646	8003376	8118042	8211695	8350707		346118		Avg 7.7

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\13240-0010344-013.d
Lims ID: ICV Client ID:
Inject. Date: 30-May-2012 09:53:00 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0010344-013
Misc. Info.: 13 ICV
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 45592 Lims Sample ID: 13
Sublist:
Detector: IC 13240-0010344-013
Method: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\300_G.m
Last Update: 06-Jun-2012 10:28:29 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 06-Jun-2012 10:27:35

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.908	2.908	0.0	30576562	0	
2 Chloride	4.150	4.142	0.008	577220665	0	
3 Nitrite as N	4.867	4.858	0.009	45240586	2.40	
4 Bromide	6.042	6.033	0.009	36008294	0	
5 Nitrate as N	7.025	7.008	0.017	50638983	2.39	
6 Orthophosphate	9.800	9.808	-0.008	849199	2.45	
7 Sulfate	12.100	12.117	-0.017	345326644	0	

Report Date: 06-Jun-2012 10:28:31

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\13240-0010344-013.d

Injection Date: 30-May-2012 09:53:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

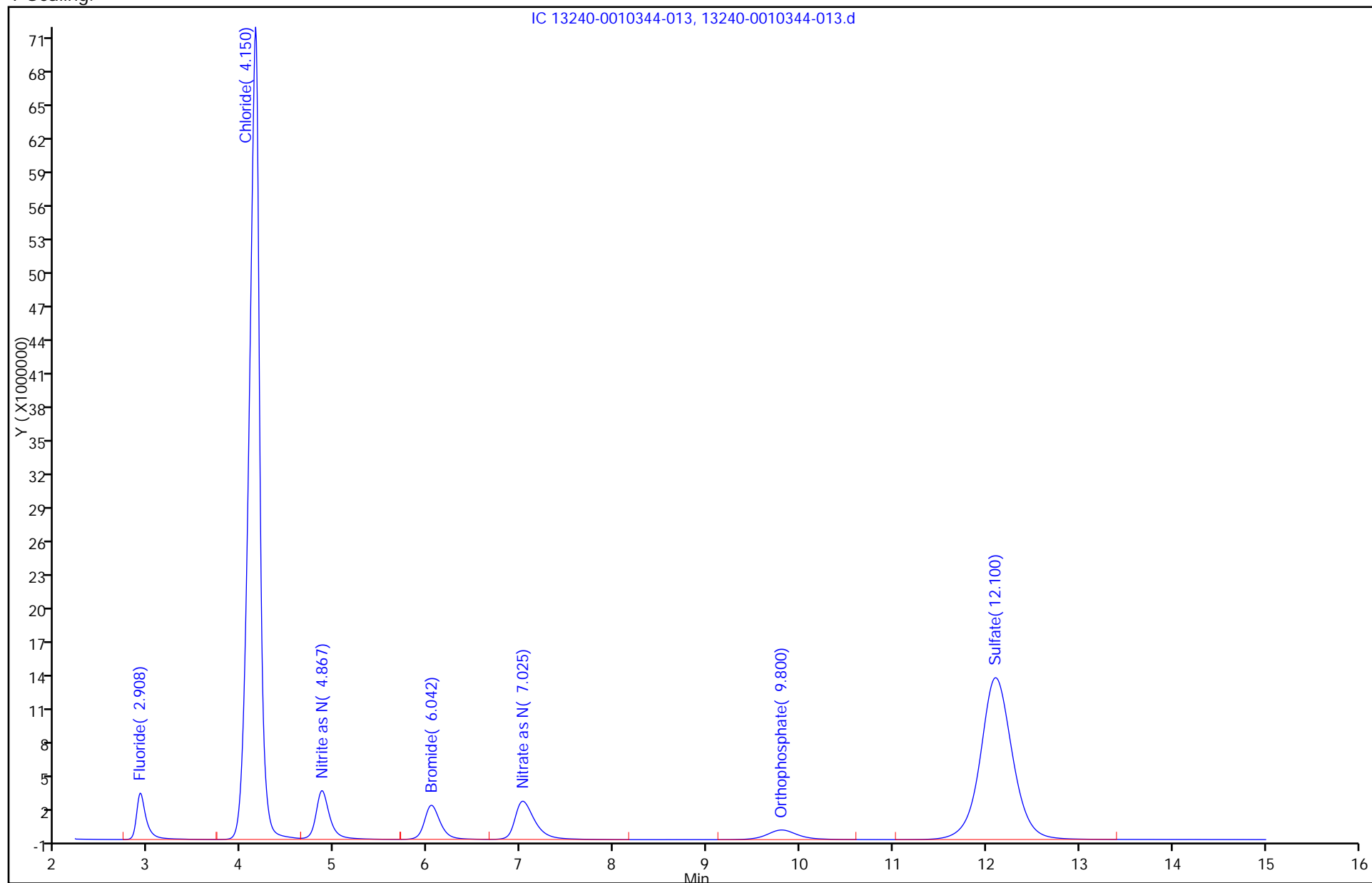
Lims Batch ID: 45592

Lims Sample ID: 13

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\2240-0011105-002.d
Lims ID: CCV Client ID:
Inject. Date: 26-Jun-2012 12:14:00 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0011105-002
Misc. Info.: 2 CCV
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 2
Detector: IC 2240-0011105-002
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:17 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	30480625	0	
2 Chloride	3.992	3.992	0.0	583719432	0	
3 Nitrite as N	4.642	4.642	0.0	45677589	2.43	
4 Bromide	5.700	5.700	0.0	36844096	0	
5 Nitrate as N	6.558	6.558	0.0	52740051	2.49	
6 Orthophosphate	9.150	9.150	0.0	892314	2.58	
7 Sulfate	11.183	11.183	0.0	355870838	0	

Report Date: 27-Jun-2012 07:58:17

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\2240-0011105-002.d

Injection Date: 26-Jun-2012 12:14:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

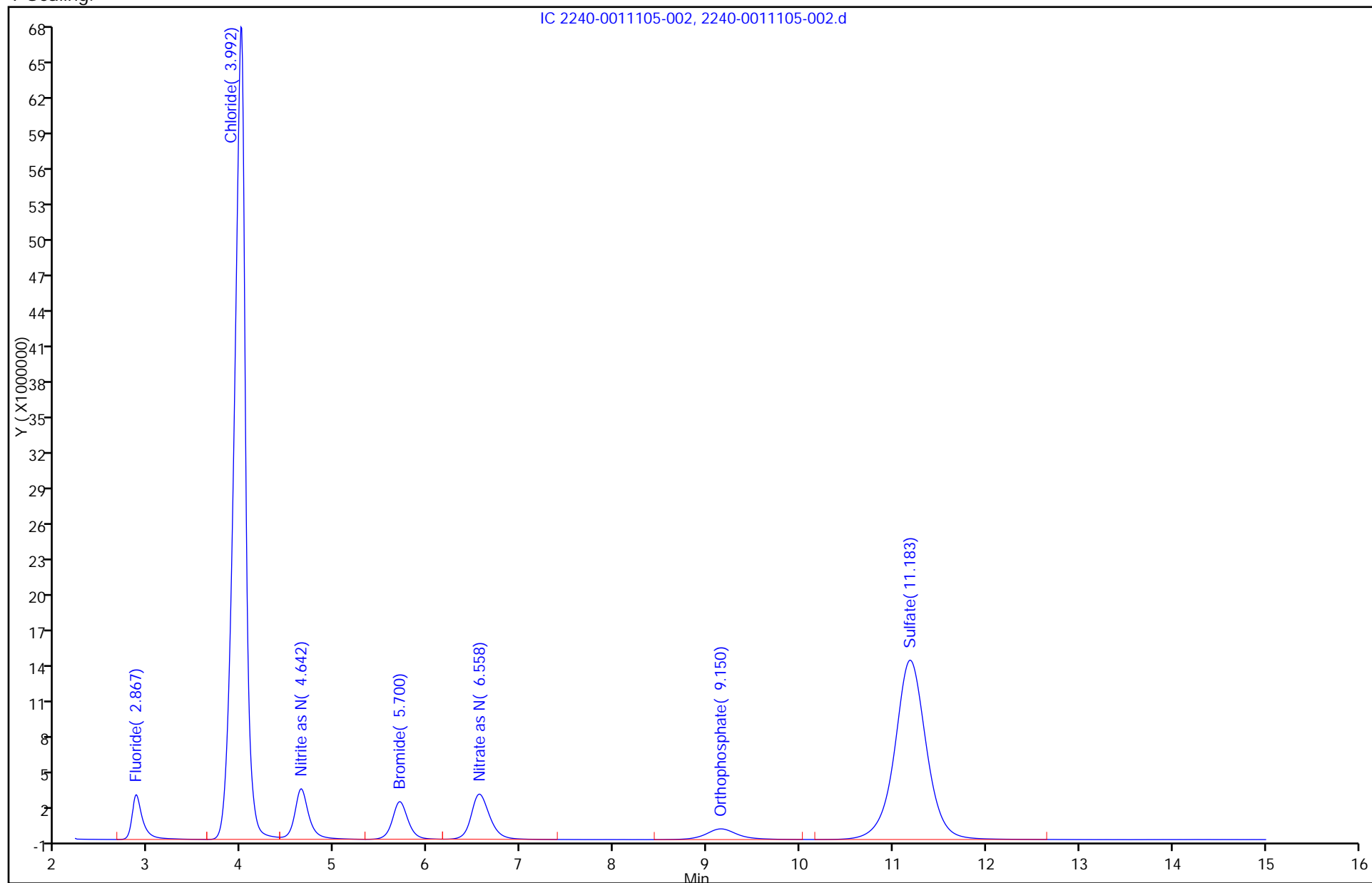
Lims Batch ID: 48902

Lims Sample ID: 2

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\3240-0011105-003.d
Lims ID: CCB Client ID:
Inject. Date: 26-Jun-2012 12:31:00 Dil. Factor: 1.0000
Sample Type: CCB
Sample ID: 240-0011105-003
Misc. Info.: 3 CCB
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 3
Detector: IC 3240-0011105-003
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:17 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.867				1
2 Chloride		3.992				
3 Nitrite as N		4.642				1
4 Bromide		5.700				1
5 Nitrate as N		6.558				1
6 Orthophosphate	9.158	9.150	0.008	4411	0.0127	7
7 Sulfate		11.183				1

QC Flag Legend

Processing Flags

1 - Missing Peaks

7 - Failed Limit of Detection

Report Date: 27-Jun-2012 07:58:17

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\3240-0011105-003.d

Injection Date: 26-Jun-2012 12:31:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

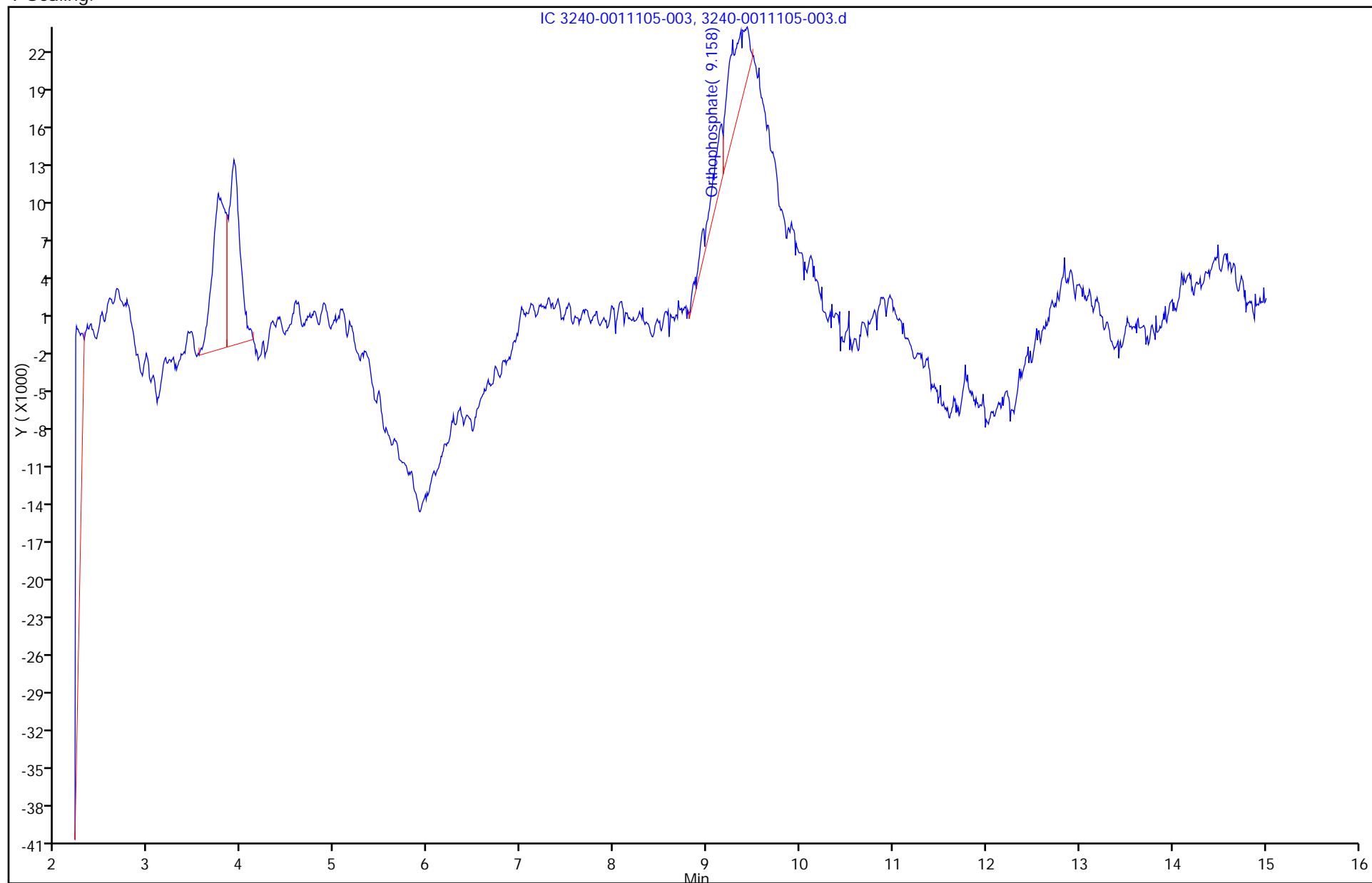
Lims Batch ID: 48902

Lims Sample ID: 3

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\4240-0011105-004.d
Lims ID: MB Client ID:
Inject. Date: 26-Jun-2012 12:48:00 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0011105-004
Misc. Info.: 4 MB
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 4
Detector: IC 4240-0011105-004
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:17 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.867				1
2 Chloride		3.992				
3 Nitrite as N		4.642				1
4 Bromide		5.700				1
5 Nitrate as N		6.558				1
6 Orthophosphate		9.150				1
7 Sulfate		11.183				1

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 27-Jun-2012 07:58:17

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\4240-0011105-004.d

Injection Date: 26-Jun-2012 12:48:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

Lims Batch ID: 48902

Lims Sample ID: 4

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\5240-0011105-005.d
Lims ID: LCS Client ID:
Inject. Date: 26-Jun-2012 13:06:00 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0011105-005
Misc. Info.: 5 LCS
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 5
Detector: IC 5240-0011105-005
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:17 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.858	2.867	-0.009	30229022	0	
2 Chloride	3.992	3.992	0.0	581408338	0	
3 Nitrite as N	4.633	4.642	-0.009	45539091	2.42	
4 Bromide	5.692	5.700	-0.008	36629493	0	
5 Nitrate as N	6.542	6.558	-0.016	51205244	2.42	
6 Orthophosphate	9.142	9.150	-0.008	903120	2.61	
7 Sulfate	11.175	11.183	-0.008	351981112	0	

Report Date: 27-Jun-2012 07:58:17

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\5240-0011105-005.d

Injection Date: 26-Jun-2012 13:06:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

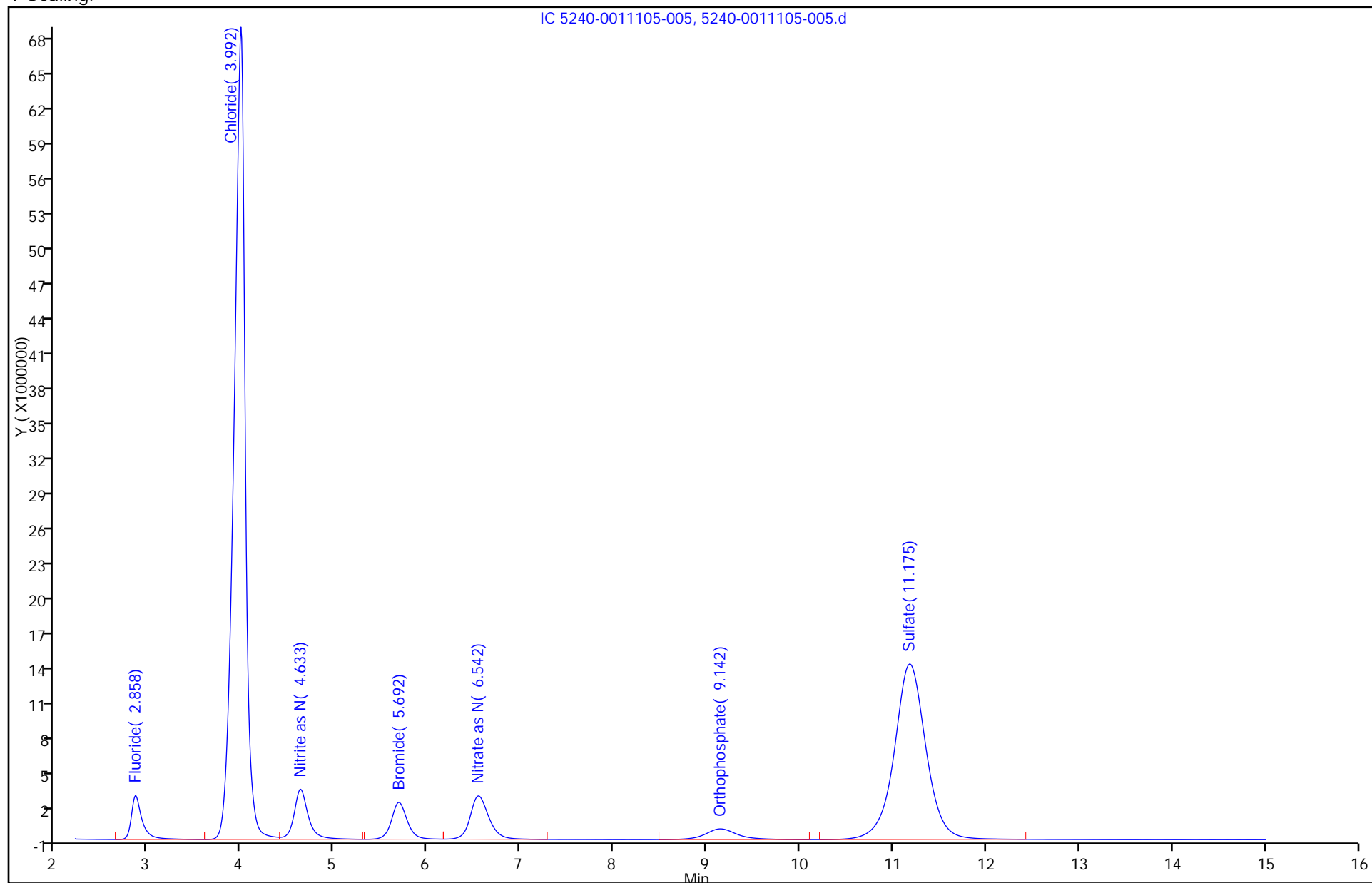
Lims Batch ID: 48902

Lims Sample ID: 5

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\6240-0011105-006.d
 Lims ID: 240-12605-D-1 Client ID: MW-101(20120622)
 Inject. Date: 26-Jun-2012 13:23:00 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 240-0011105-006
 Misc. Info.: 6 240-12605-D-1
 Operator: Instrument ID: GARFUNKEL
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 48902 Lims Sample ID: 6
 Detector: IC 6240-0011105-006
 Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
 Last Update: 27-Jun-2012 07:58:17 Calib Date: 30-May-2012 09:18:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
 Limit Group: WET IC SH ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 27-Jun-2012 07:58:13

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	475088	0	M
2 Chloride	3.975	3.992	-0.017	81965371	0	M
3 Nitrite as N		4.642				1
4 Bromide	5.708	5.700	0.008	351401	0	
5 Nitrate as N	6.575	6.558	0.017	17183918	0.8127	M
6 Orthophosphate	9.333	9.150	0.183	66903	0.1933	
7 Sulfate	11.242	11.183	0.059	50444784	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 27-Jun-2012 07:58:18

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\6240-0011105-006.d

Injection Date: 26-Jun-2012 13:23:00

Limit Group: WET IC SH ICAL

Client ID: MW-101(20120622)

Instrument ID: GARFUNKEL

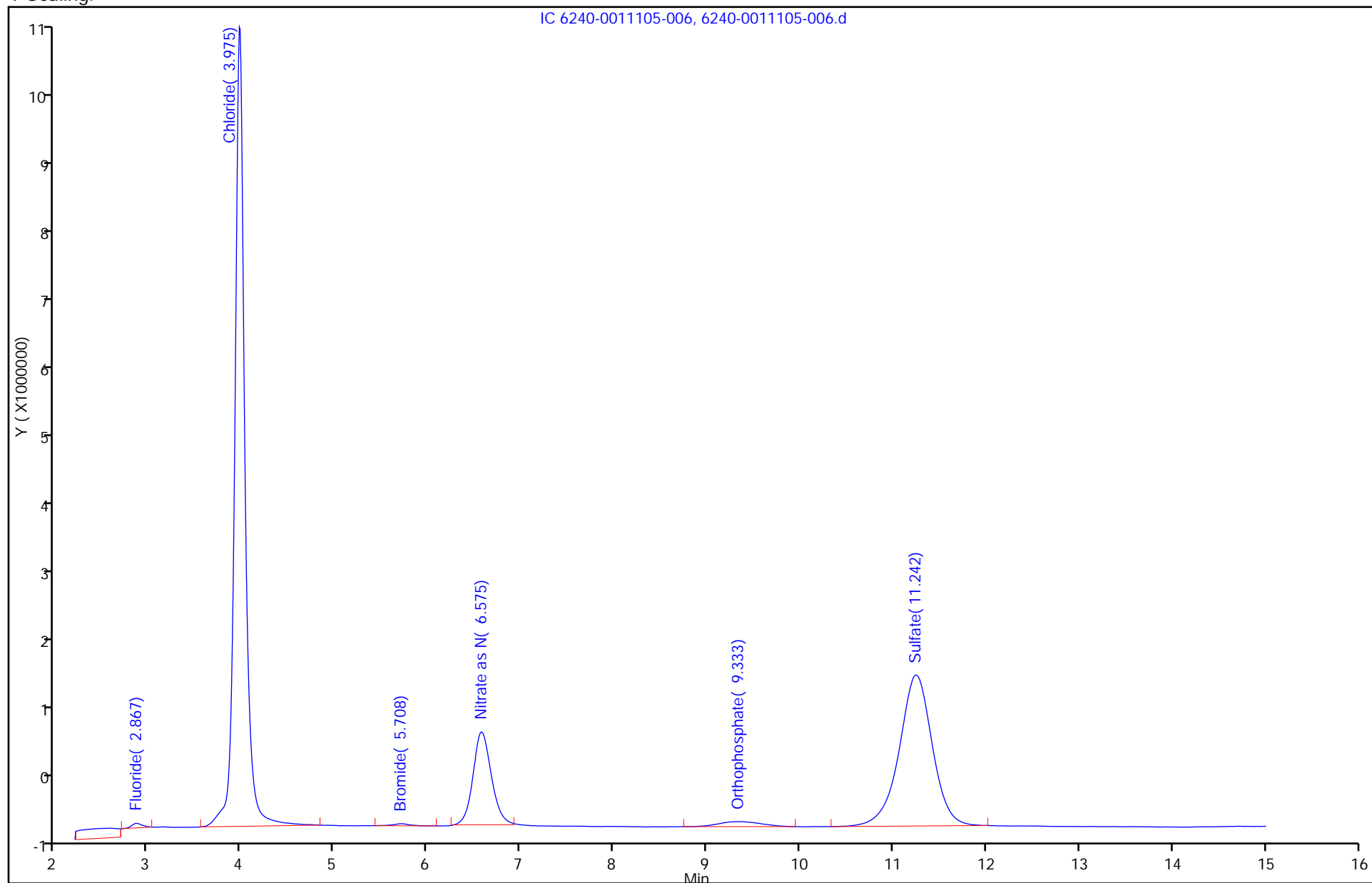
Lims Batch ID: 48902

Lims Sample ID: 6

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\7240-0011105-007.d
Lims ID: 240-12605-D-1 MS Client ID:
Inject. Date: 26-Jun-2012 13:41:00 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0011105-007
Misc. Info.: 7 240-12605-D-1 MS
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 7
Detector: IC 7240-0011105-007
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:17 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.875	2.867	0.008	33577543	0	
2 Chloride	4.050	3.992	0.058	734310493	0	
3 Nitrite as N	4.658	4.642	0.016	47305366	2.51	
4 Bromide	5.708	5.700	0.008	39099953	0	
5 Nitrate as N	6.550	6.558	-0.008	75468891	3.57	
6 Orthophosphate	9.200	9.150	0.050	1632992	4.72	
7 Sulfate	11.200	11.183	0.017	438836728	0	

Report Date: 27-Jun-2012 07:58:18

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\7240-0011105-007.d

Injection Date: 26-Jun-2012 13:41:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

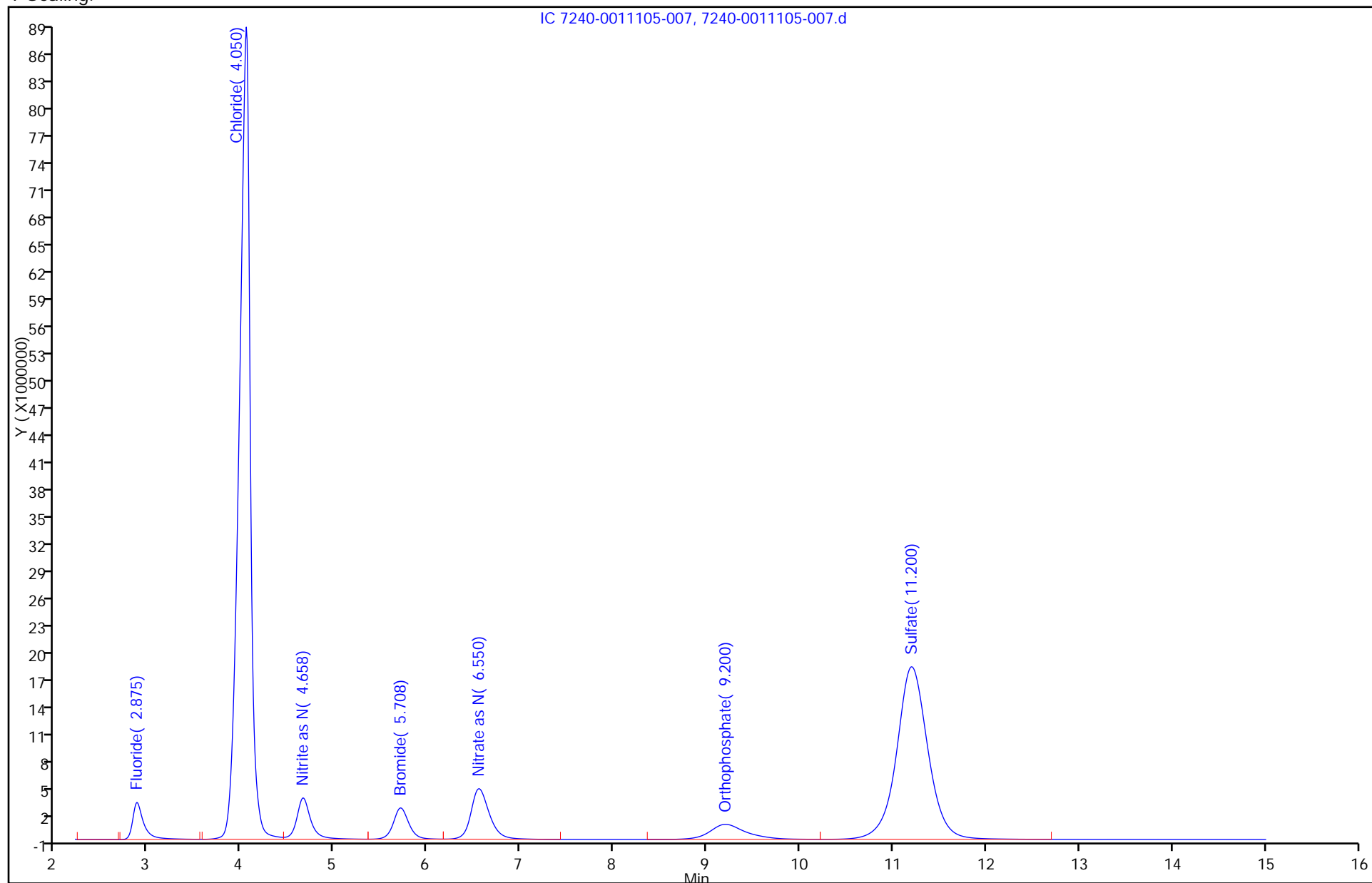
Lims Batch ID: 48902

Lims Sample ID: 7

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\9240-0011105-009.d
Lims ID: 240-12605-D-2 Client ID: MW-1A(20120622)
Inject. Date: 26-Jun-2012 14:16:00 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011105-009
Misc. Info.: 9 240-12605-D-2
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 9
Detector: IC 9240-0011105-009
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:17 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 27-Jun-2012 07:57:52

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.883	2.867	0.016	367415	0	M
2 Chloride	4.000	3.992	0.008	71407232	0	M
3 Nitrite as N		4.642				1
4 Bromide		5.700				
5 Nitrate as N	6.575	6.558	0.017	35866450	1.70	
6 Orthophosphate	9.325	9.150	0.175	8907	0.0257	7
7 Sulfate	11.275	11.183	0.092	45057085	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Report Date: 27-Jun-2012 07:58:18

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\9240-0011105-009.d

Injection Date: 26-Jun-2012 14:16:00

Limit Group: WET IC SH ICAL

Client ID: MW-1A(20120622)

Instrument ID: GARFUNKEL

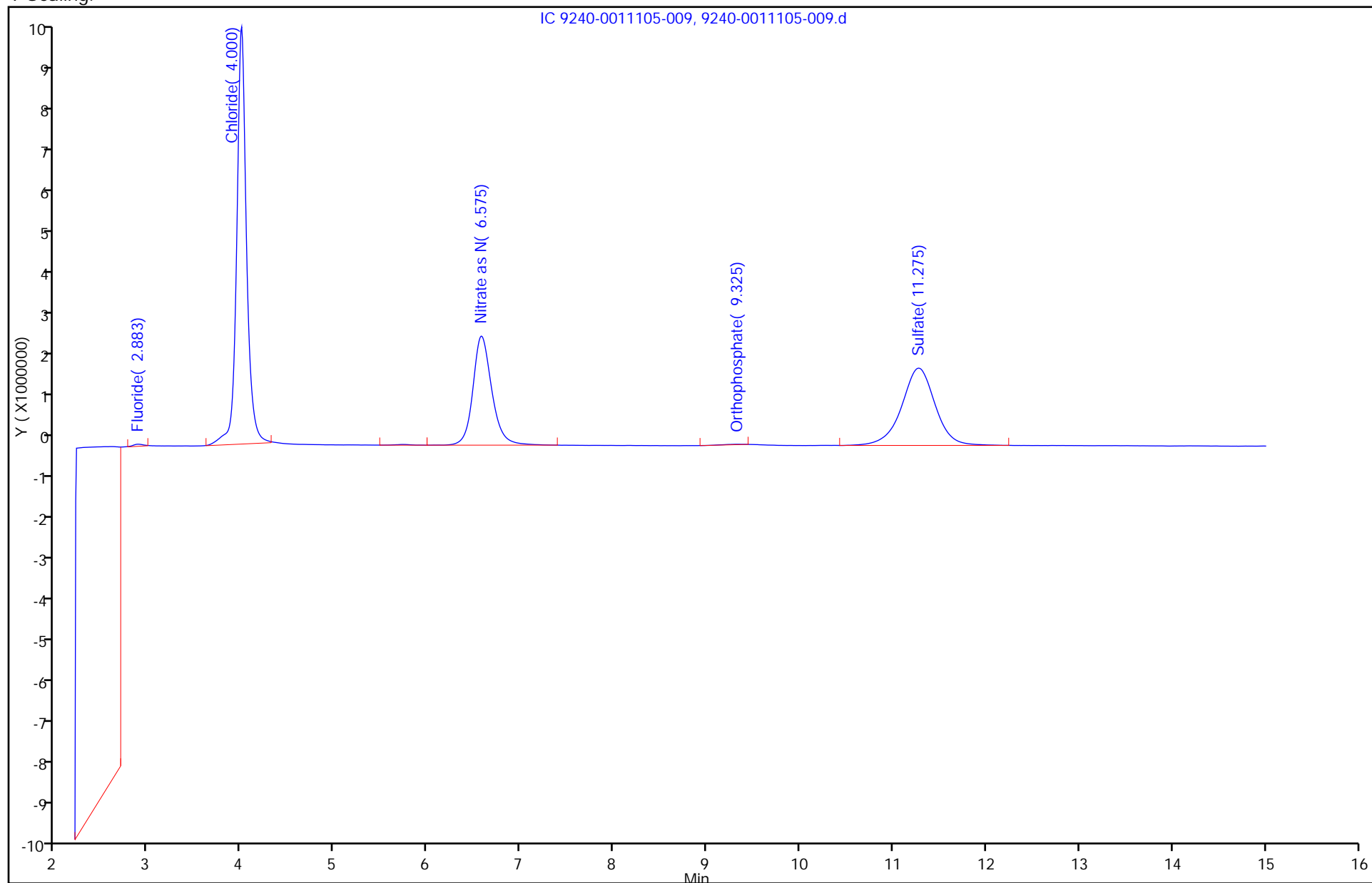
Lims Batch ID: 48902

Lims Sample ID: 9

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\10240-0011105-010.d
Lims ID: 240-12605-D-3 Client ID: MW-102A(20120622)
Inject. Date: 26-Jun-2012 14:33:00 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011105-010
Misc. Info.: 10 240-12605-D-3
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 10
Detector: IC 10240-0011105-010
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:17 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

First Level Reviewer: grossmanl

Date: 27-Jun-2012 07:57:39

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.883	2.867	0.016	567182	0	M
2 Chloride	3.975	3.992	-0.017	61856882	0	
3 Nitrite as N		4.642				1
4 Bromide		5.700				
5 Nitrate as N	6.575	6.558	0.017	27409955	1.30	
6 Orthophosphate	9.292	9.150	0.142	18599	0.0537	M
7 Sulfate	11.258	11.183	0.075	85440103	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 27-Jun-2012 07:58:18

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\10240-0011105-010.d

Injection Date: 26-Jun-2012 14:33:00

Limit Group: WET IC SH ICAL

Client ID: MW-102A(20120622)

Instrument ID: GARFUNKEL

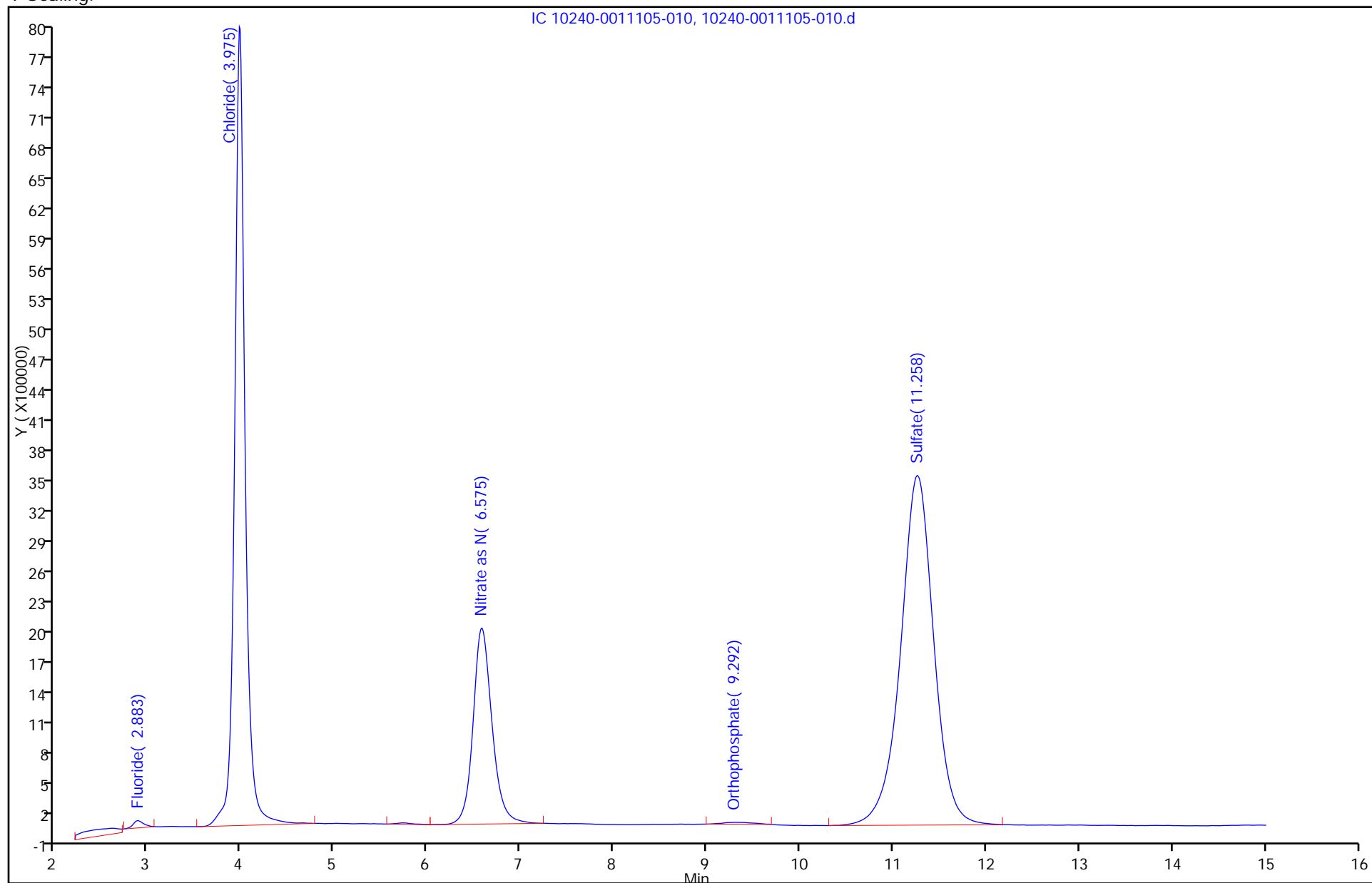
Lims Batch ID: 48902

Lims Sample ID: 10

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:

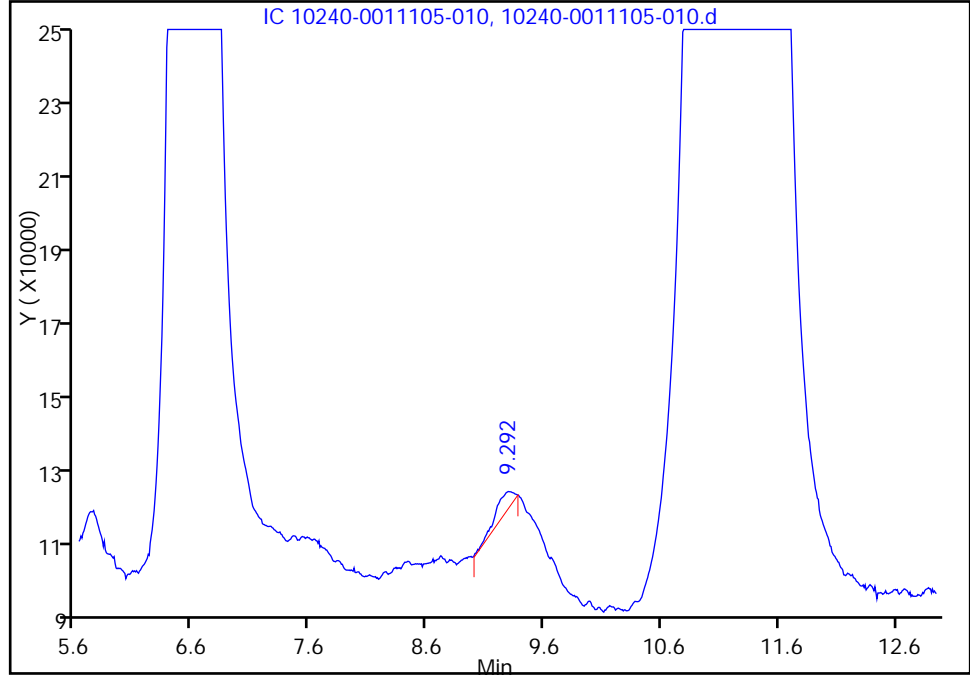


Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\10240-0011105-010.d
Injection Date: 26-Jun-2012 14:33:00 Limit Group: WET IC SH ICAL
Client ID: MW-102A(20120622) Instrument ID: GARFUNKEL
Lims Batch ID: 48902 Lims Sample ID: 10
Operator ID: Injection Vol: 25.00 ul

6 Orthophosphate, Signal: 1, Type: quant, RT: 9.15

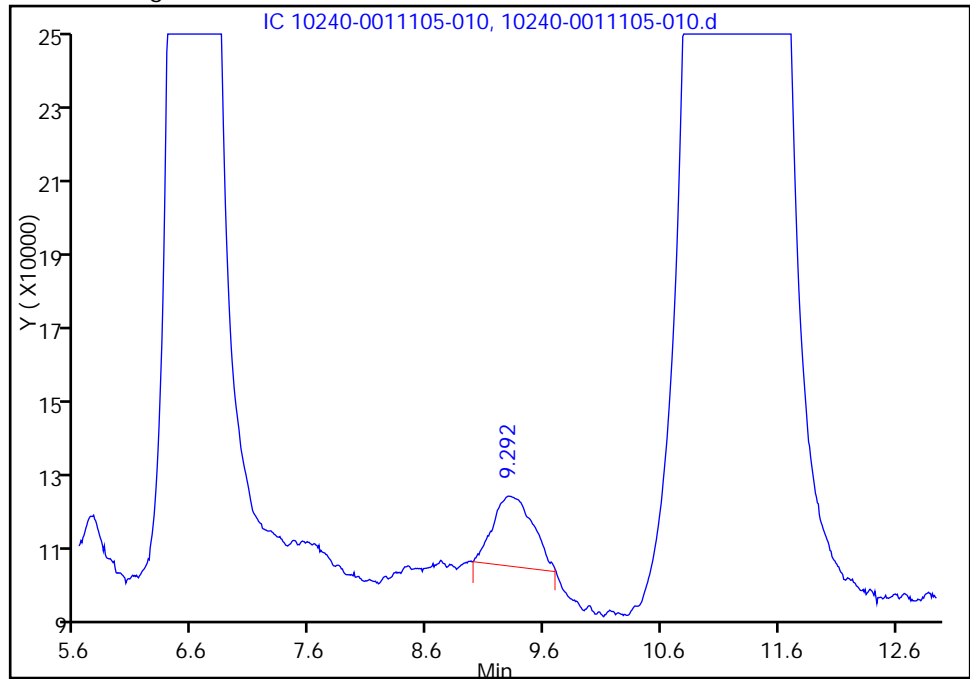
RT: 9.29
Response: 4616
Amount: 0

Processing Integration Results



RT: 9.29
Response: 18599
Amount: 0.053736

Manual Integration Results



Reviewer: grossmanl, 27-Jun-2012 07:57:39

Audit Action: Manually Integrated

Audit Reason: Baseline Event

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\11240-0011105-011.d
Lims ID: ccv Client ID:
Inject. Date: 26-Jun-2012 14:50:00 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0011105-011
Misc. Info.: 11 CCV
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 11
Detector: IC 11240-0011105-011
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:19 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	30552718	0	
2 Chloride	3.992	3.992	0.0	584869508	0	
3 Nitrite as N	4.633	4.633	0.0	45845379	2.44	
4 Bromide	5.692	5.692	0.0	36945172	0	
5 Nitrate as N	6.542	6.542	0.0	53031004	2.51	
6 Orthophosphate	9.158	9.158	0.0	914898	2.64	
7 Sulfate	11.192	11.192	0.0	355565813	0	

Report Date: 27-Jun-2012 07:58:19

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\11240-0011105-011.d

Injection Date: 26-Jun-2012 14:50:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

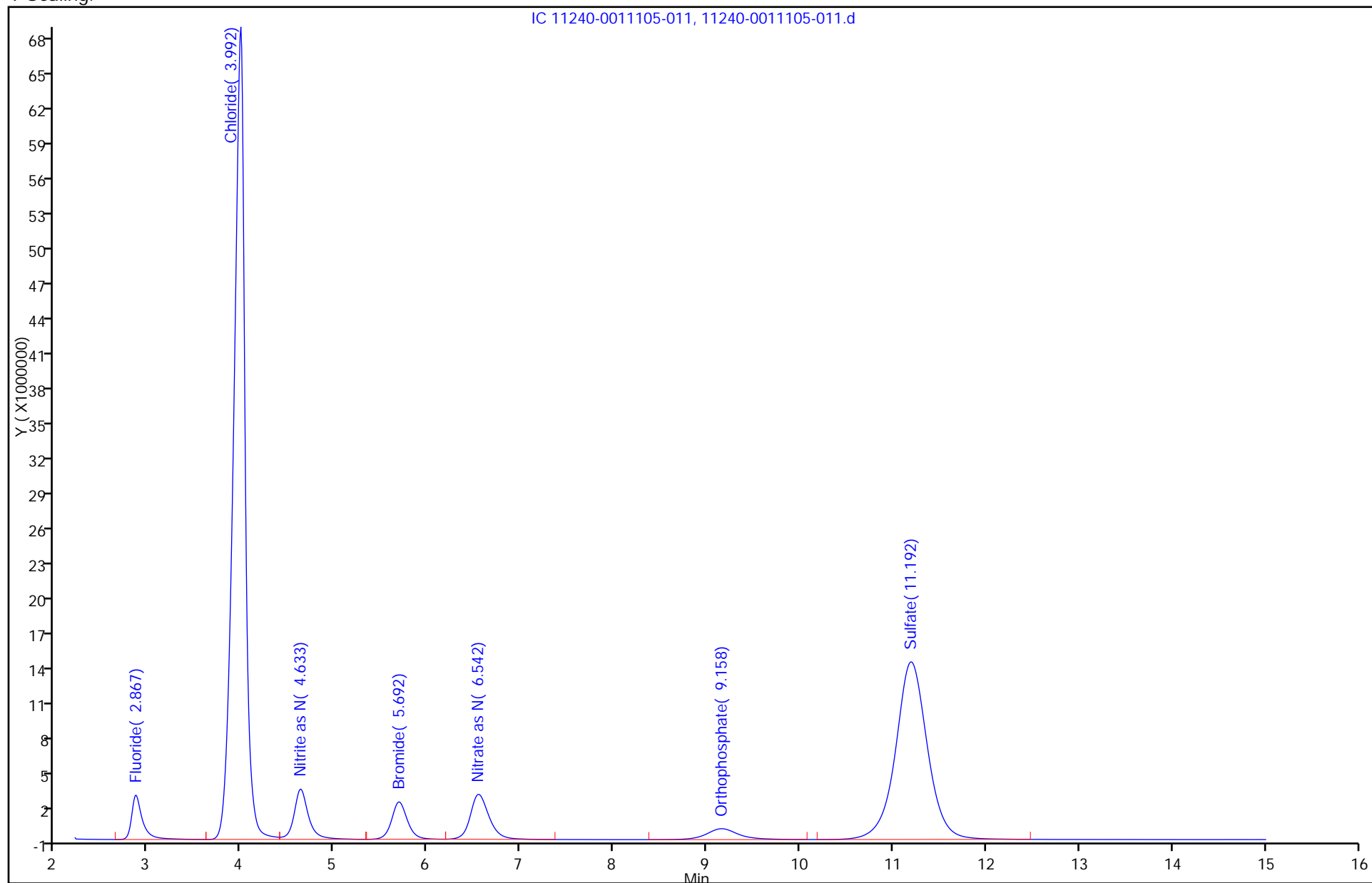
Lims Batch ID: 48902

Lims Sample ID: 11

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\12240-0011105-012.d
Lims ID: ccb Client ID:
Inject. Date: 26-Jun-2012 15:08:00 Dil. Factor: 1.0000
Sample Type: CCB
Sample ID: 240-0011105-012
Misc. Info.: 12 CCB
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48902 Lims Sample ID: 12
Detector: IC 12240-0011105-012
Method: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\300_G.m
Last Update: 27-Jun-2012 07:58:19 Calib Date: 30-May-2012 09:18:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120529-10344.b\11240-0010344-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-18

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.867				1
2 Chloride		3.992				
3 Nitrite as N		4.633				1
4 Bromide		5.692				1
5 Nitrate as N		6.542				1
6 Orthophosphate	9.292	9.158	0.134	1636	0.004727	7
7 Sulfate		11.192				1

QC Flag Legend

Processing Flags

1 - Missing Peaks

7 - Failed Limit of Detection

Report Date: 27-Jun-2012 07:58:19

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120626-11105.b\12240-0011105-012.d

Injection Date: 26-Jun-2012 15:08:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: GARFUNKEL

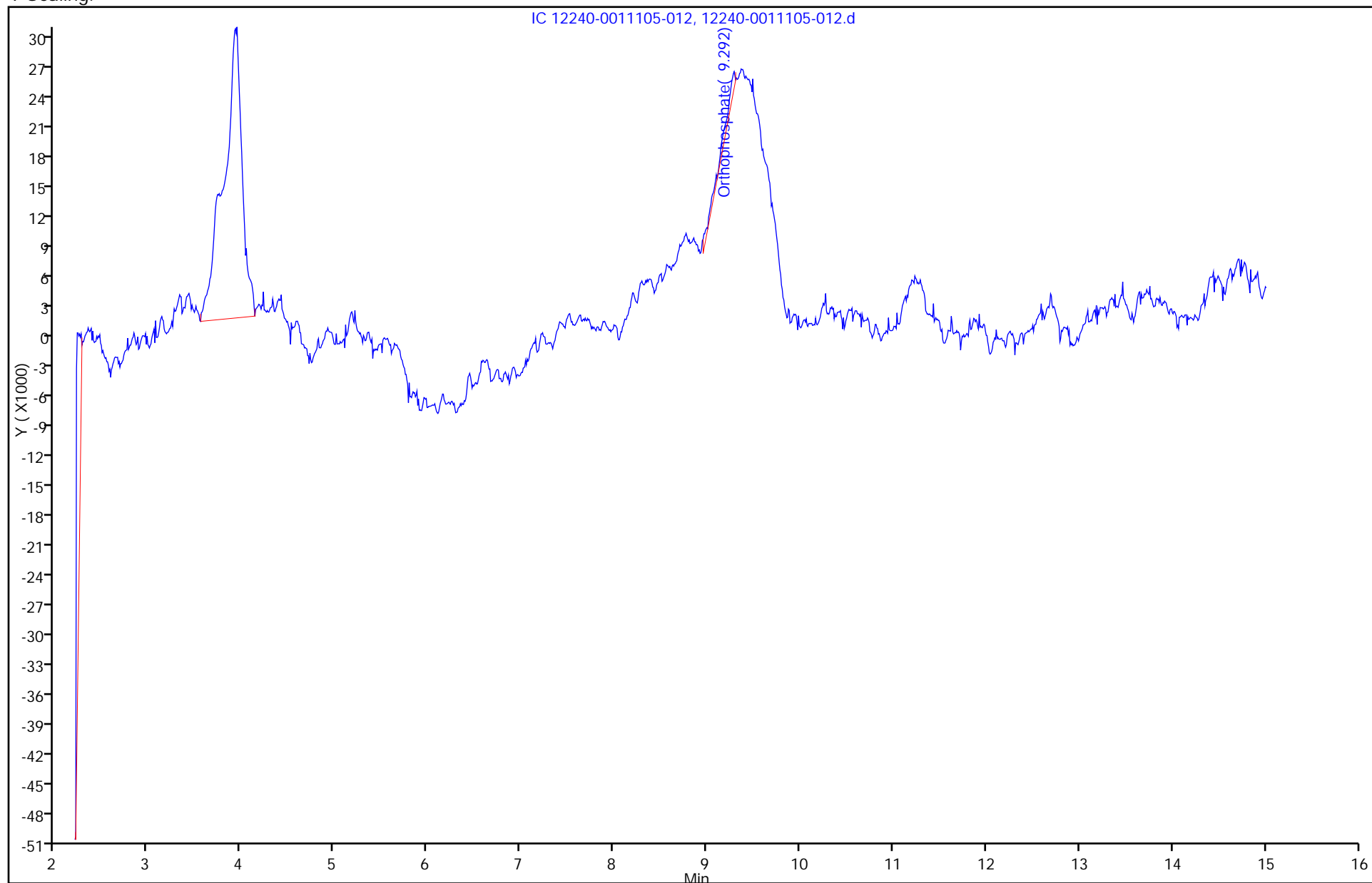
Lims Batch ID: 48902

Lims Sample ID: 12

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\3240-0011158-003.d
Lims ID: STD1 Client ID:
Inject. Date: 28-Jun-2012 08:55:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0011158-003
Misc. Info.: 3 STD1
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 3
Sublist: chrom-300_G*sub2
Detector: IC 3240-0011158-003
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:47 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:40:54

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.875	2.867	0.008	547233	0.0441	
2 Chloride	3.942	3.983	-0.041	8589194	0.7699	M
3 Nitrite as N	4.642	4.633	0.009	1008326	0	
4 Bromide	5.708	5.683	0.025	697090	0.1861	
5 Nitrate as N	6.600	6.533	0.067	1029079	0	
6 Orthophosphate	9.208	9.158	0.050	677456	0	M
7 Sulfate	11.258	11.175	0.083	6116669	0.8519	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 28-Jun-2012 12:48:47

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\3240-0011158-003.d

Injection Date: 28-Jun-2012 08:55:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

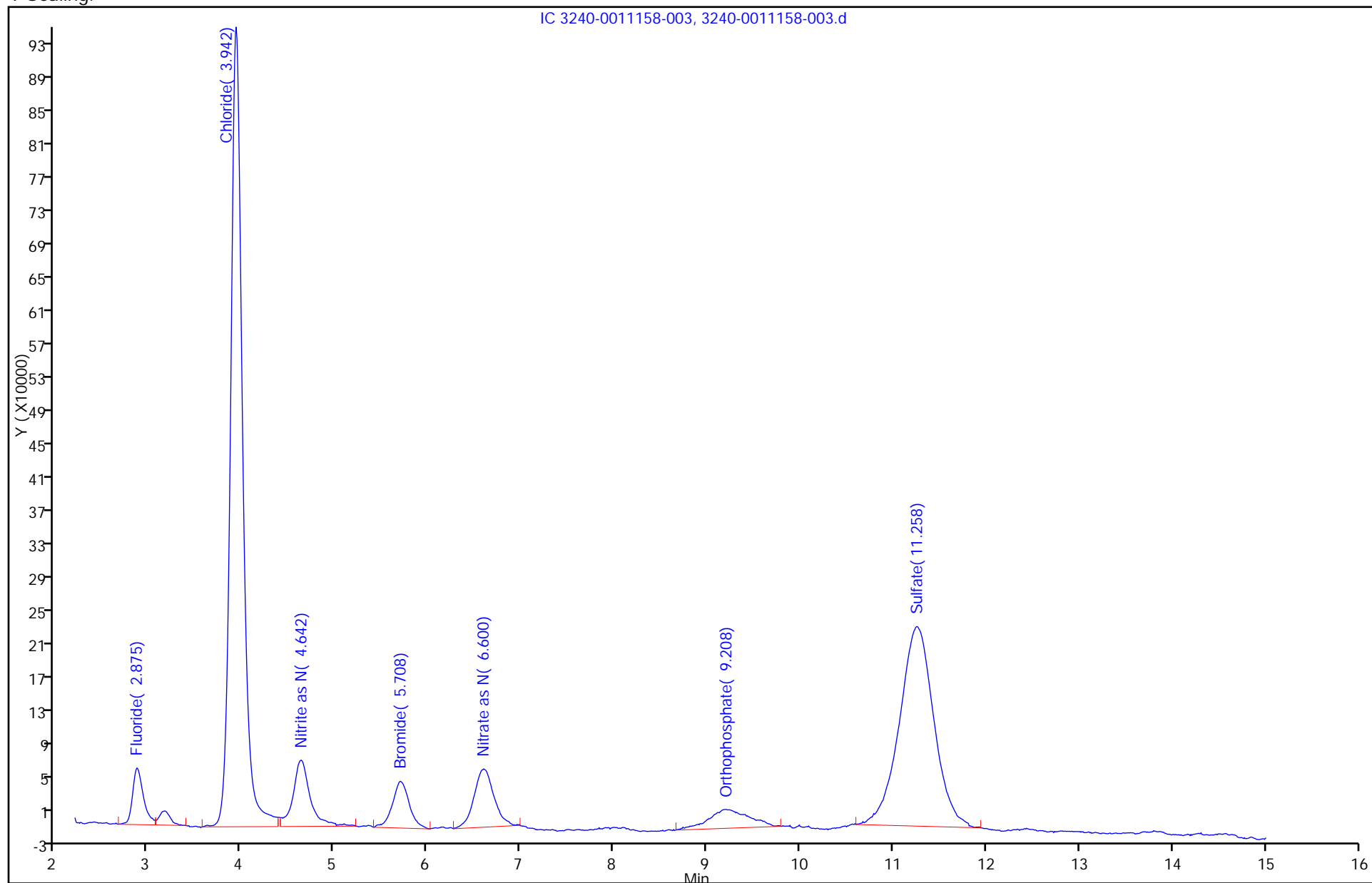
Lims Batch ID: 49129

Lims Sample ID: 3

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:

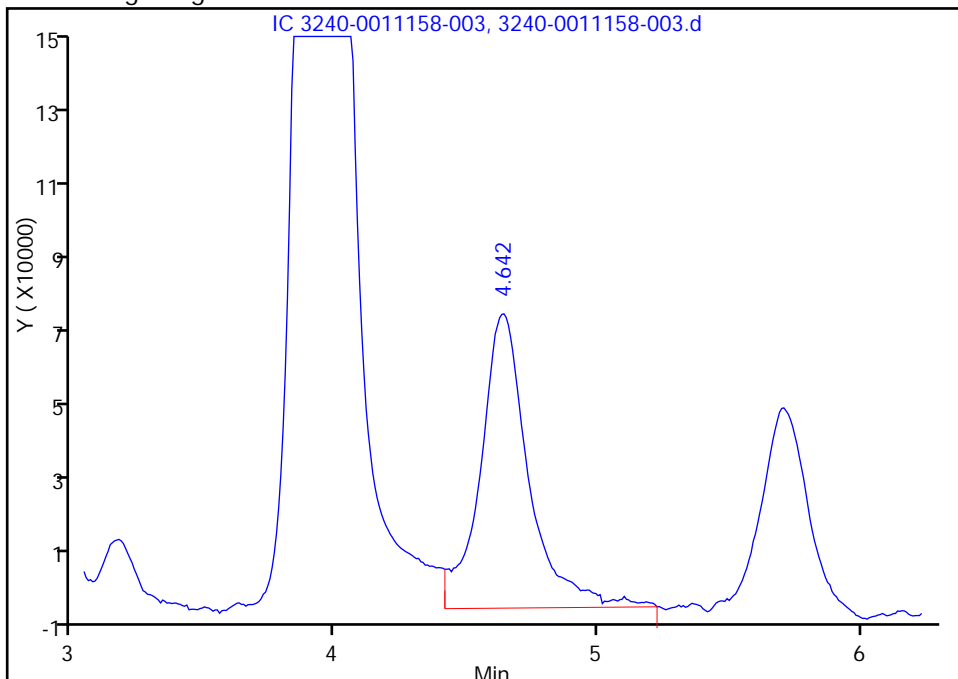


Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\3240-0011158-003.d
Injection Date: 28-Jun-2012 08:55:00 Limit Group: WET IC ICAL
Client ID: Instrument ID: GARFUNKEL
Lims Batch ID: 49129 Lims Sample ID: 3
Operator ID: Injection Vol: 25.00 ul

2 Chloride, Signal: 1, Type: quant, RT: 3.98

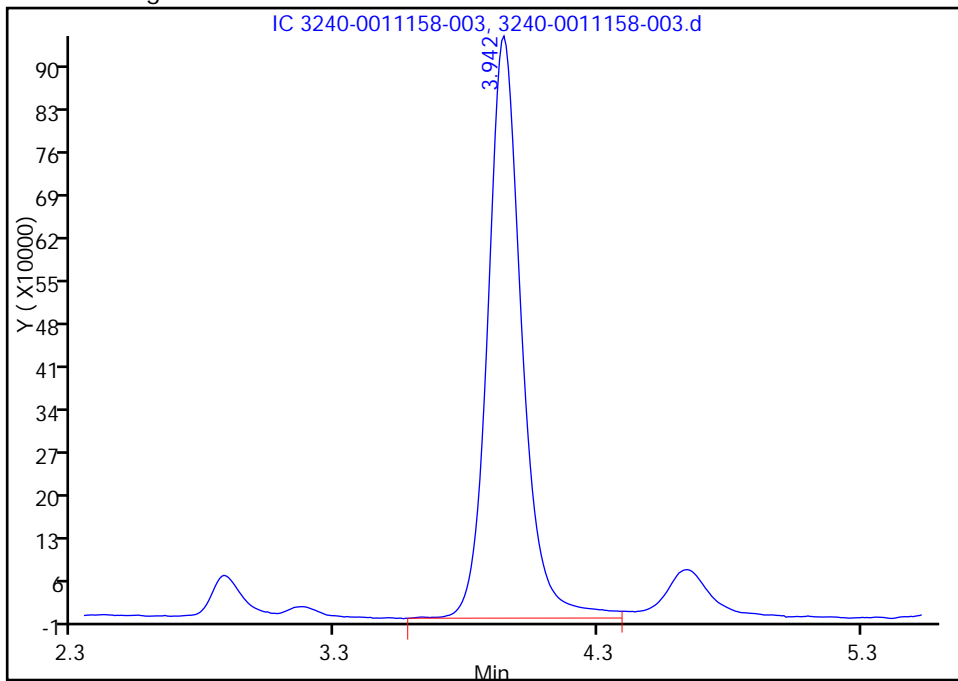
RT: 4.64
Response: 1008326
Amount: 1.085380

Processing Integration Results



RT: 3.94
Response: 8589194
Amount: 0.769866

Manual Integration Results



Reviewer: grossmanl, 28-Jun-2012 12:40:54

Audit Action: Manually Integrated

Audit Reason: Baseline Event

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\4240-0011158-004.d
Lims ID: STD2 Client ID:
Inject. Date: 28-Jun-2012 09:12:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0011158-004
Misc. Info.: 4 STD2
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 4
Sublist: chrom-300_G*sub2
Detector: IC 4240-0011158-004
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:48 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:41:35

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	2887539	0.2327	
2 Chloride	3.933	3.983	-0.050	44963927	4.03	
3 Nitrite as N	4.625	4.633	-0.008	4180070	0	
4 Bromide	5.692	5.683	0.009	3530458	0.9423	
5 Nitrate as N	6.575	6.533	0.042	5048471	0	
6 Orthophosphate	9.192	9.158	0.034	2425042	0	
7 Sulfate	11.233	11.175	0.058	30782949	4.29	

Report Date: 28-Jun-2012 12:48:48

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\GARFUNKEL\20120627-11158.b\4240-0011158-004.d

Injection Date: 28-Jun-2012 09:12:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

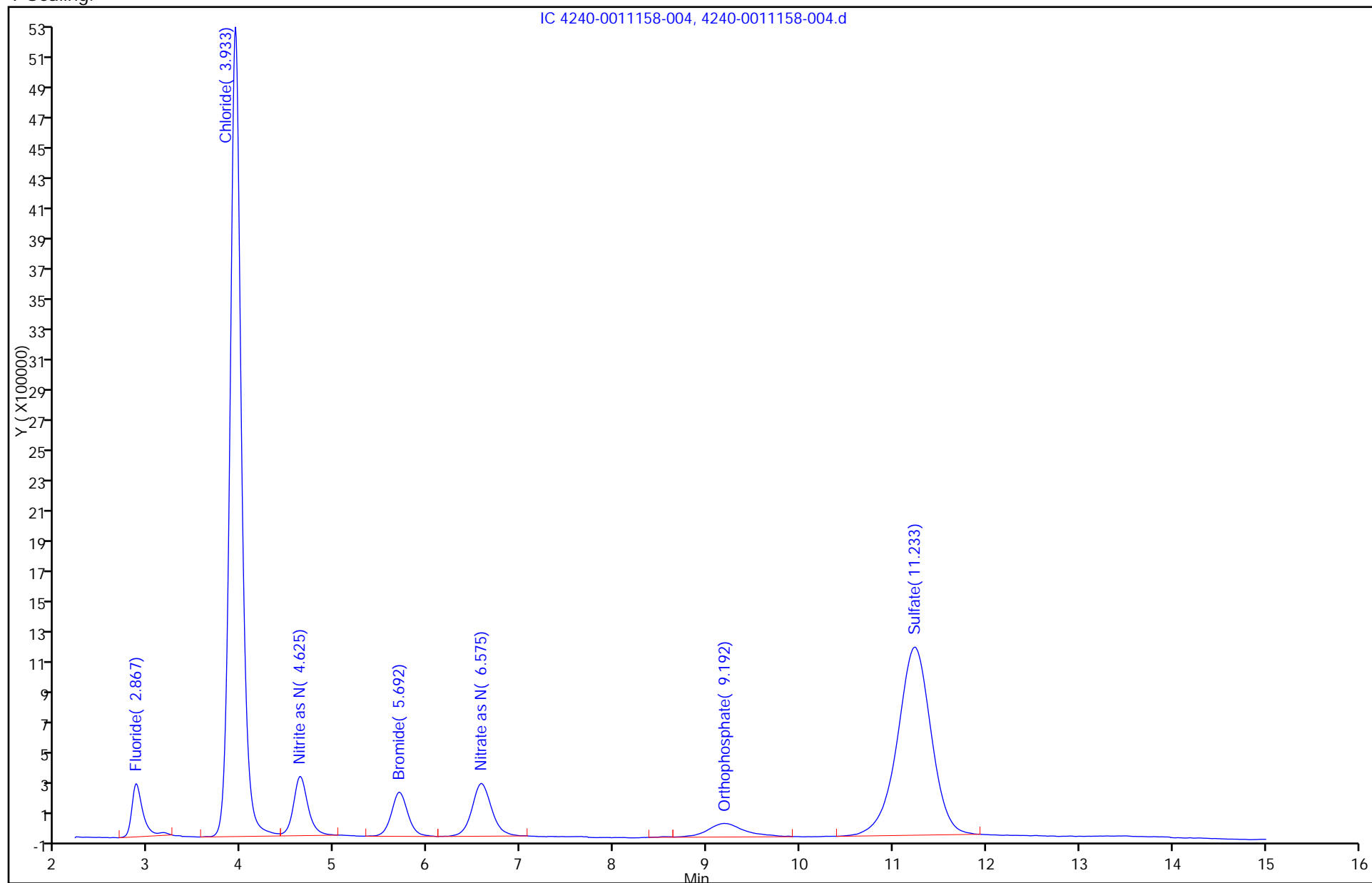
Lims Batch ID: 49129

Lims Sample ID: 4

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\5240-0011158-005.d
Lims ID: STD3 Client ID:
Inject. Date: 28-Jun-2012 09:29:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0011158-005
Misc. Info.: 5 STD3
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 5
Sublist: chrom-300_G*sub2
Detector: IC 5240-0011158-005
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:48 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:43:46

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	6010342	0.4844	
2 Chloride	3.933	3.983	-0.050	93721310	8.40	
3 Nitrite as N	4.625	4.633	-0.008	9273088	0	
4 Bromide	5.692	5.683	0.009	7315843	1.95	
5 Nitrate as N	6.567	6.533	0.034	9961600	0	
6 Orthophosphate	9.183	9.158	0.025	4575301	0	
7 Sulfate	11.225	11.175	0.050	62514718	8.71	

Report Date: 28-Jun-2012 12:48:48

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\5240-0011158-005.d

Injection Date: 28-Jun-2012 09:29:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

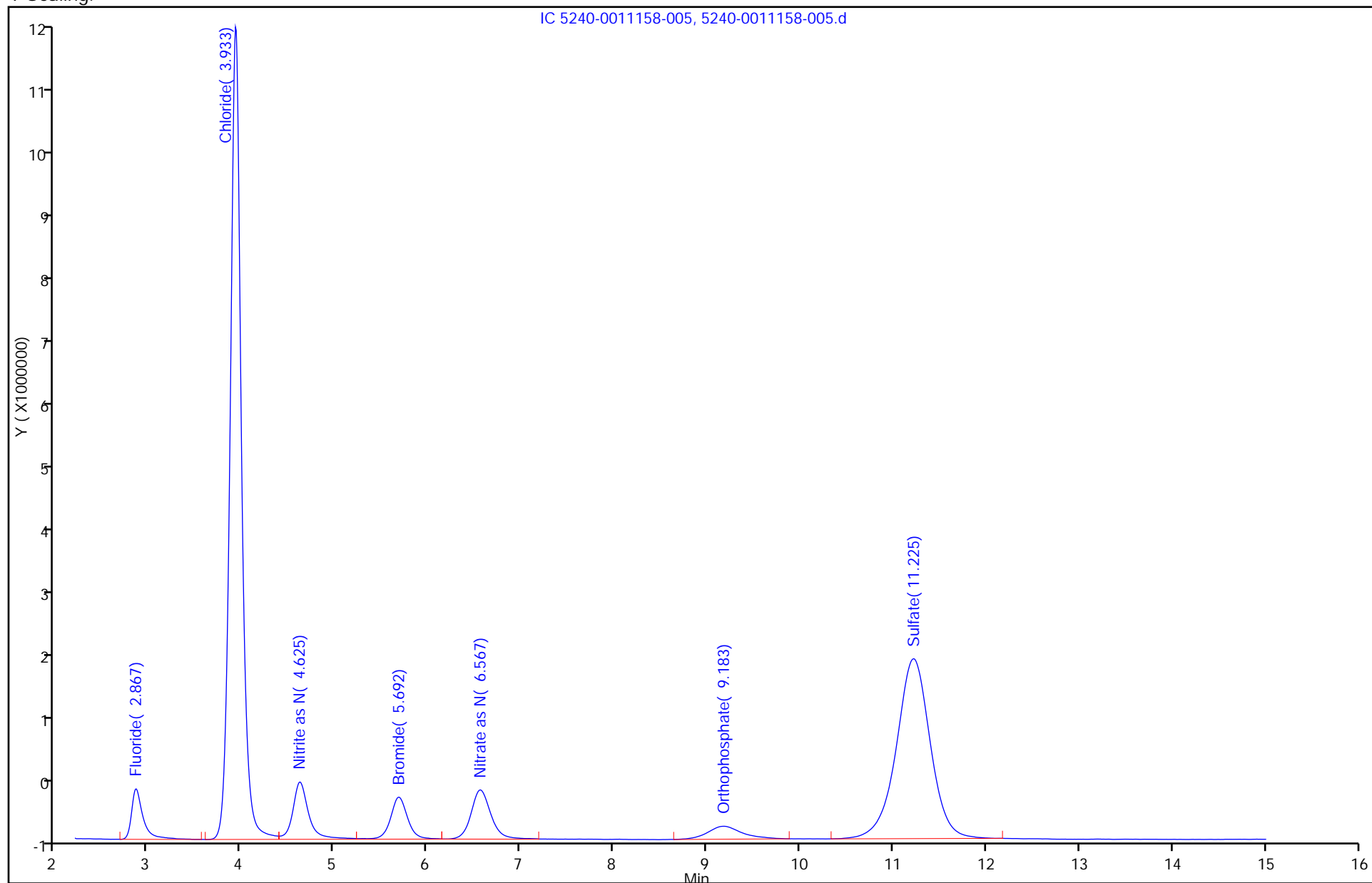
Lims Batch ID: 49129

Lims Sample ID: 5

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
IC, ICal Standard Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\6240-0011158-006.d
Lims ID: STD4 Client ID:
Inject. Date: 28-Jun-2012 09:47:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0011158-006
Misc. Info.: 6 STD4
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 6
Sublist: chrom-300_G*sub2
Detector: IC 6240-0011158-006
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:48 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:44:07

Start Cal Date: 28-Jun-2012 08:55:00

End Cal Date: 28-Jun-2012 11:14:00

Compound	Standard RRF/Amount	DLT RT	Ccal Amount	Ccal RF	Min. RRF	%D	Max. %D
1 Fluoride	12406868	0.000		12130075	0.000	-2.2	10.0
2 Chloride	11156741	-0.033		10191402	0.000	-8.7	10.0
4 Bromide	3746726	0.009		3550831	0.000	-5.2	10.0
7 Sulfate	7179985	0.033		6491087	0.000	-9.6	10.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\6240-0011158-006.d
Lims ID: STD4 Client ID:
Inject. Date: 28-Jun-2012 09:47:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0011158-006
Misc. Info.: 6 STD4
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 6
Sublist: chrom-300_G*sub2
Detector: IC 6240-0011158-006
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:48 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:44:07

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	12130075	0.9777	
2 Chloride	3.950	3.983	-0.033	203828030	18.3	
3 Nitrite as N	4.625	4.633	-0.008	17957248	0	
4 Bromide	5.692	5.683	0.009	14203324	3.79	
5 Nitrate as N	6.558	6.533	0.025	19997502	0	
6 Orthophosphate	9.175	9.158	0.017	8820401	0	
7 Sulfate	11.208	11.175	0.033	129821746	18.1	

Report Date: 28-Jun-2012 12:48:48

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\6240-0011158-006.d

Injection Date: 28-Jun-2012 09:47:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

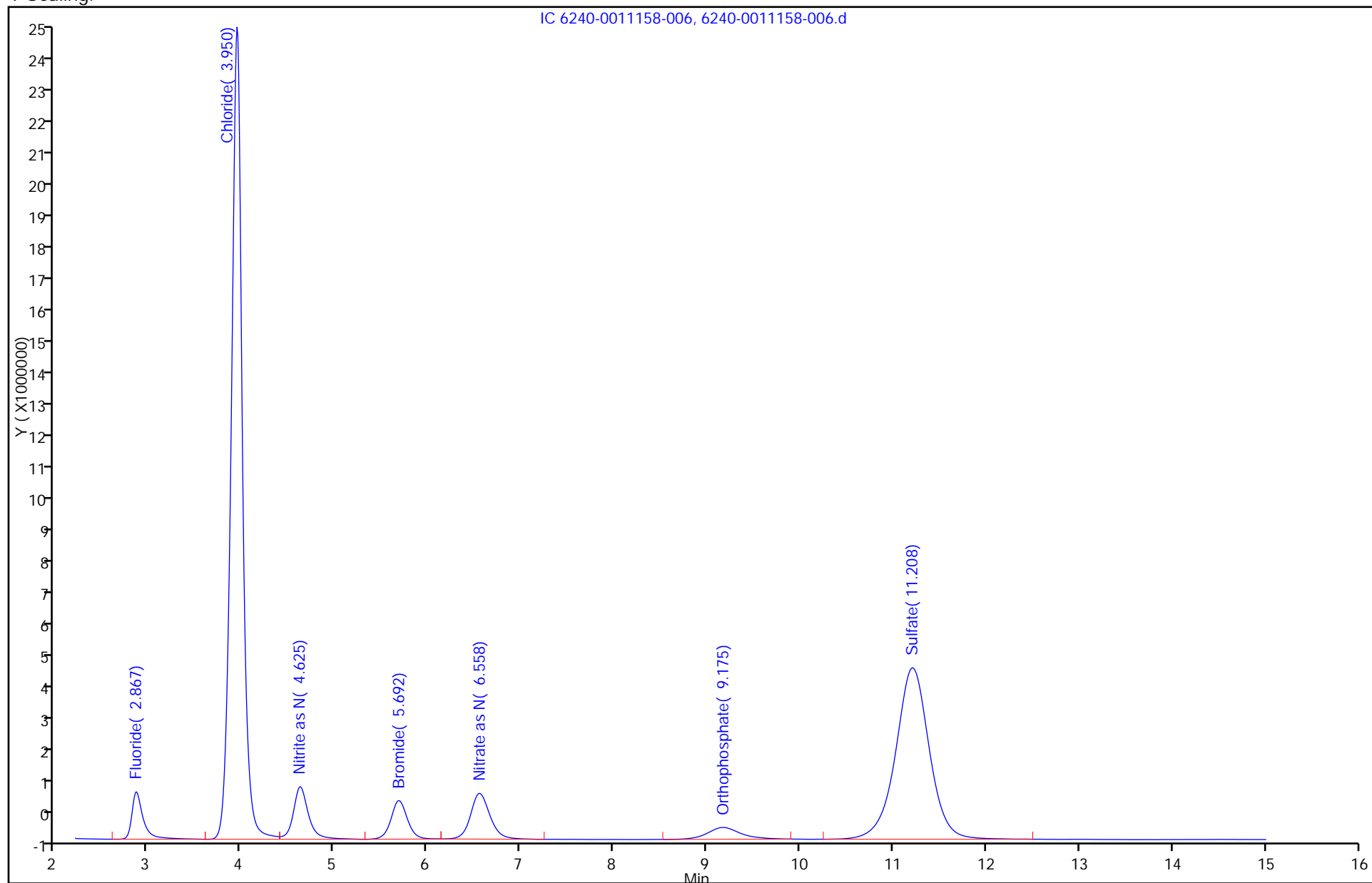
Lims Batch ID: 49129

Lims Sample ID: 6

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\7240-0011158-007.d
Lims ID: STD5 Client ID:
Inject. Date: 28-Jun-2012 10:04:00 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 5
Sample ID: 240-0011158-007
Misc. Info.: 7 STD5
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 7
Sublist: chrom-300_G*sub2
Detector: IC 7240-0011158-007
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:48 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:45:07

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	31044868	2.50	
2 Chloride	3.983	3.983	0.0	589386546	52.8	
3 Nitrite as N	4.633	4.633	0.0	46321403	0	
4 Bromide	5.683	5.683	0.0	37027699	9.88	
5 Nitrate as N	6.533	6.533	0.0	52227589	0	
6 Orthophosphate	9.158	9.158	0.0	21952379	0	
7 Sulfate	11.175	11.175	0.0	358235128	49.9	

Report Date: 28-Jun-2012 12:48:48

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File:

\\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\7240-0011158-007.d

Injection Date: 28-Jun-2012 10:04:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

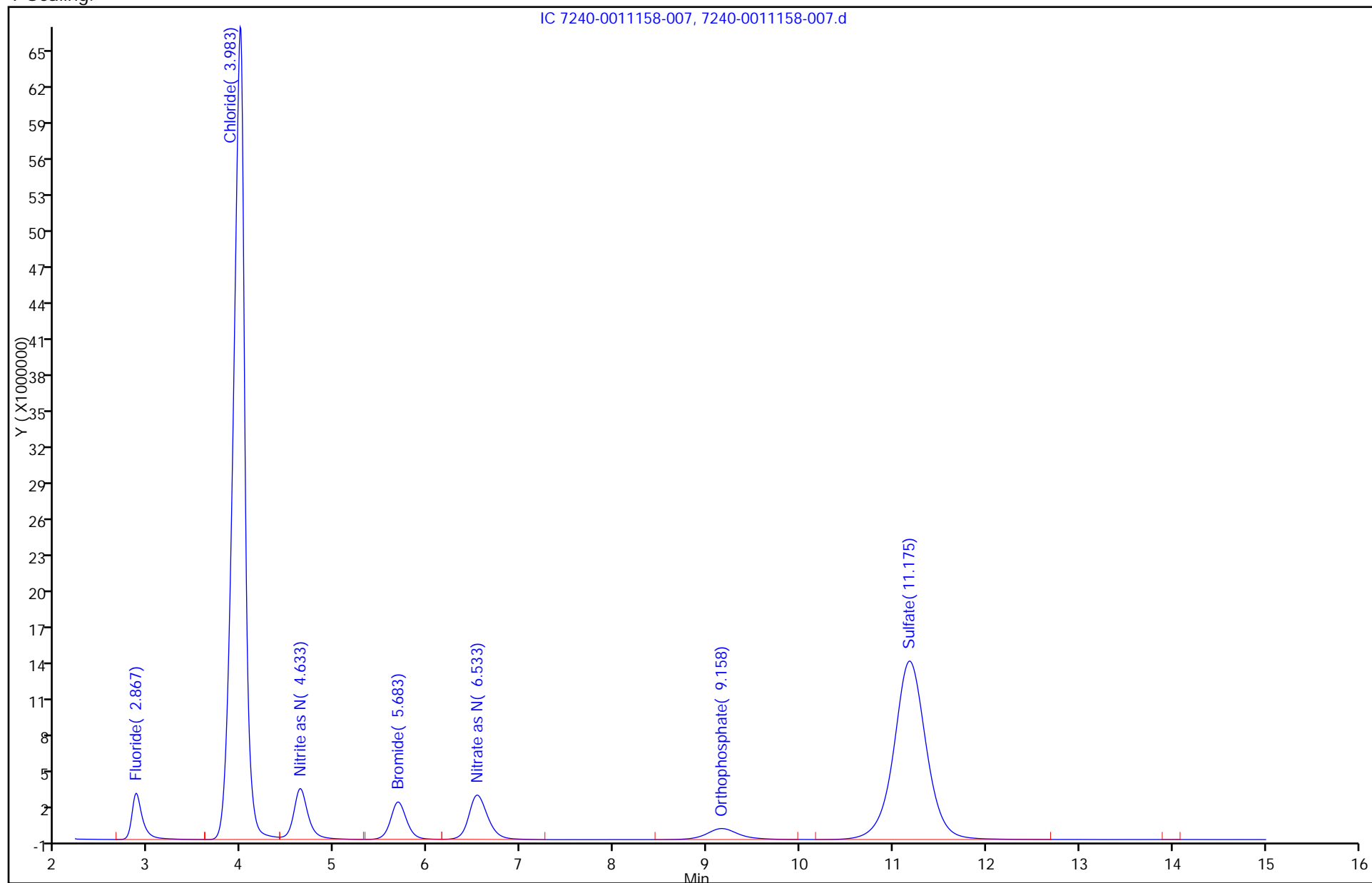
Lims Batch ID: 49129

Lims Sample ID: 7

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\8240-0011158-008.d
Lims ID: STD6 Client ID:
Inject. Date: 28-Jun-2012 10:22:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0011158-008
Misc. Info.: 8 STD6
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 8
Sublist: chrom-300_G*sub2
Detector: IC 8240-0011158-008
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:48 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:45:27

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	51013051	4.11	
2 Chloride	4.017	3.983	0.034	994299319	89.1	
3 Nitrite as N	4.633	4.633	0.0	76049287	0	
4 Bromide	5.675	5.683	-0.008	60789331	16.2	
5 Nitrate as N	6.517	6.533	-0.016	85906732	0	
6 Orthophosphate	9.150	9.158	-0.008	35525796	0	
7 Sulfate	11.150	11.175	-0.025	609065970	84.8	

Report Date: 28-Jun-2012 12:48:48

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\8240-0011158-008.d

Injection Date: 28-Jun-2012 10:22:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

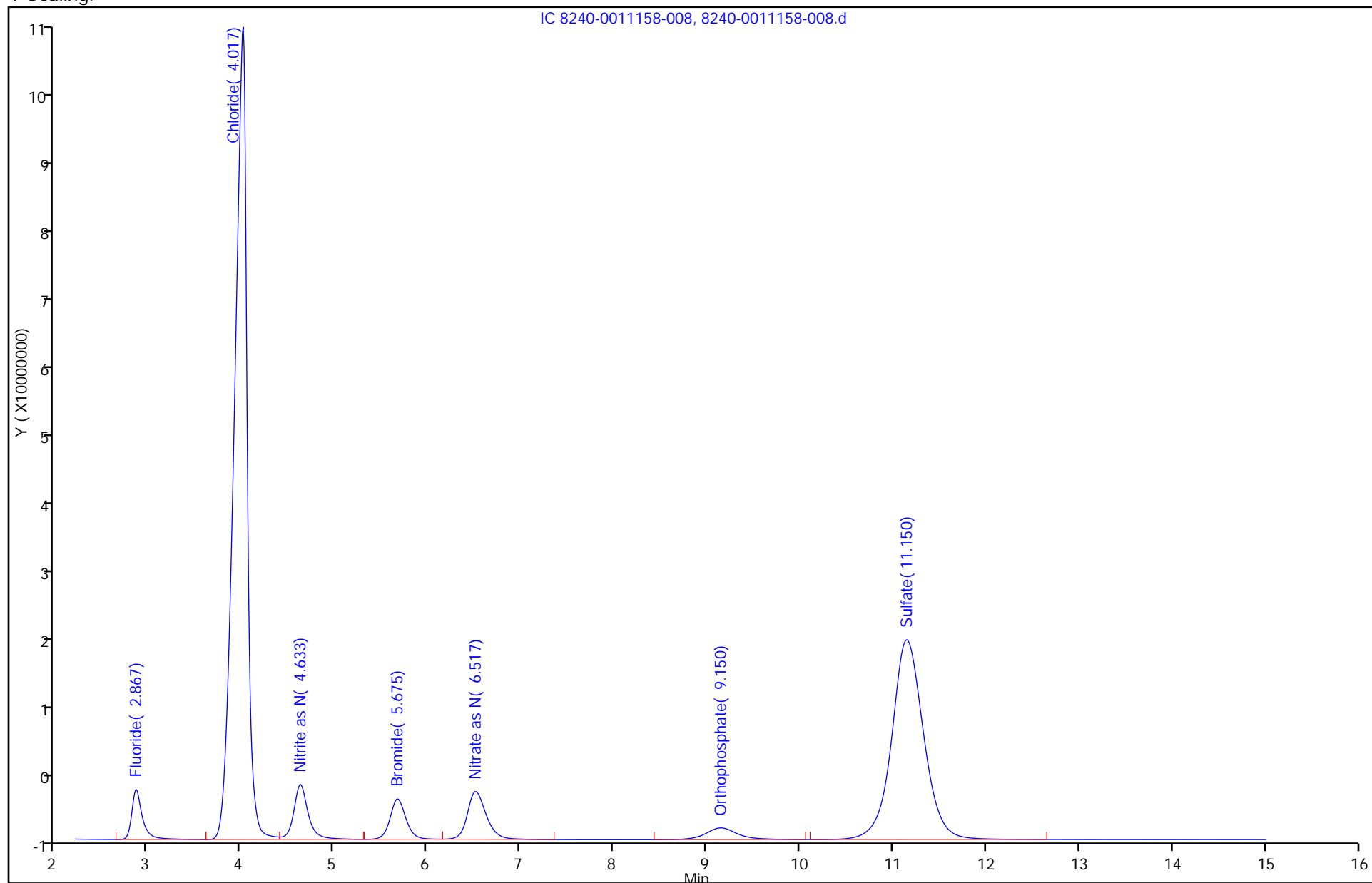
Lims Batch ID: 49129

Lims Sample ID: 8

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\9240-0011158-009.d
Lims ID: STD7 Client ID:
Inject. Date: 28-Jun-2012 10:39:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: 240-0011158-009
Misc. Info.: 9 STD7
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 9
Sublist: chrom-300_G*sub2
Detector: IC 9240-0011158-009
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:49 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:45:50

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.858	2.867	-0.009	64416109	5.19	
2 Chloride	4.025	3.983	0.042	1263325756	113.2	
3 Nitrite as N	4.625	4.633	-0.008	95649434	0	
4 Bromide	5.667	5.683	-0.016	76952613	20.5	
5 Nitrate as N	6.500	6.533	-0.033	108842734	0	
6 Orthophosphate	9.142	9.158	-0.016	44563402	0	
7 Sulfate	11.125	11.175	-0.050	782826932	109.0	

Report Date: 28-Jun-2012 12:48:49

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\9240-0011158-009.d

Injection Date: 28-Jun-2012 10:39:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

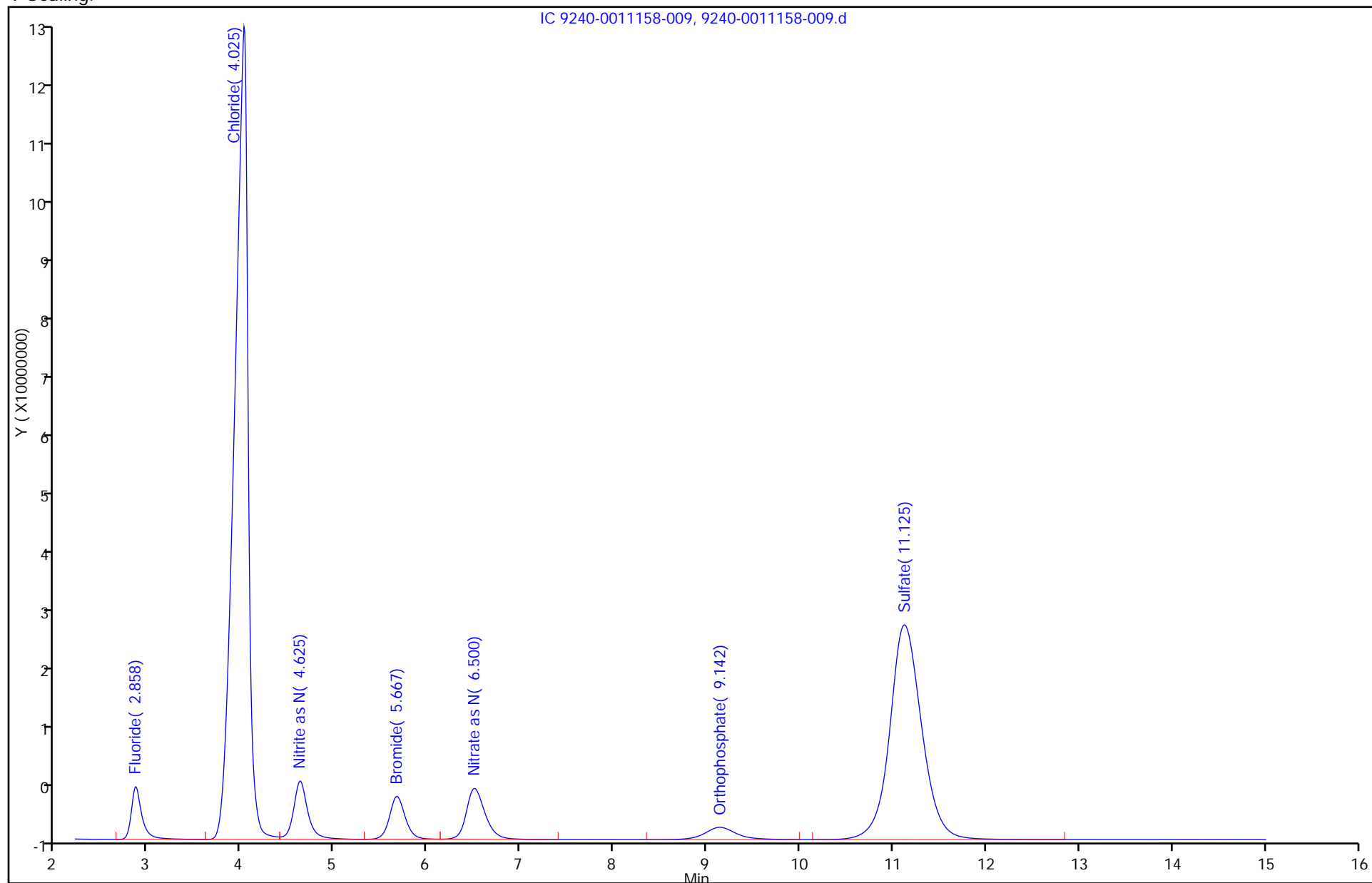
Lims Batch ID: 49129

Lims Sample ID: 9

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\10240-0011158-010.d
Lims ID: STD8 Client ID:
Inject. Date: 28-Jun-2012 10:56:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: 240-0011158-010
Misc. Info.: 10 STD8
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 10
Sublist: chrom-300_G*sub2
Detector: IC 10240-0011158-010
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:49 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:46:04

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.867	2.867	0.0	99809222	8.04	
2 Chloride	4.075	3.983	0.092	1962722420	175.9	
3 Nitrite as N	4.642	4.633	0.009	148184253	0	
4 Bromide	5.667	5.683	-0.016	120131555	32.1	
5 Nitrate as N	6.492	6.533	-0.041	171097333	0	
6 Orthophosphate	9.133	9.158	-0.025	66480373	0	
7 Sulfate	11.083	11.175	-0.092	1250472644	174.2	

Report Date: 28-Jun-2012 12:48:49

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\10240-0011158-010.d

Injection Date: 28-Jun-2012 10:56:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

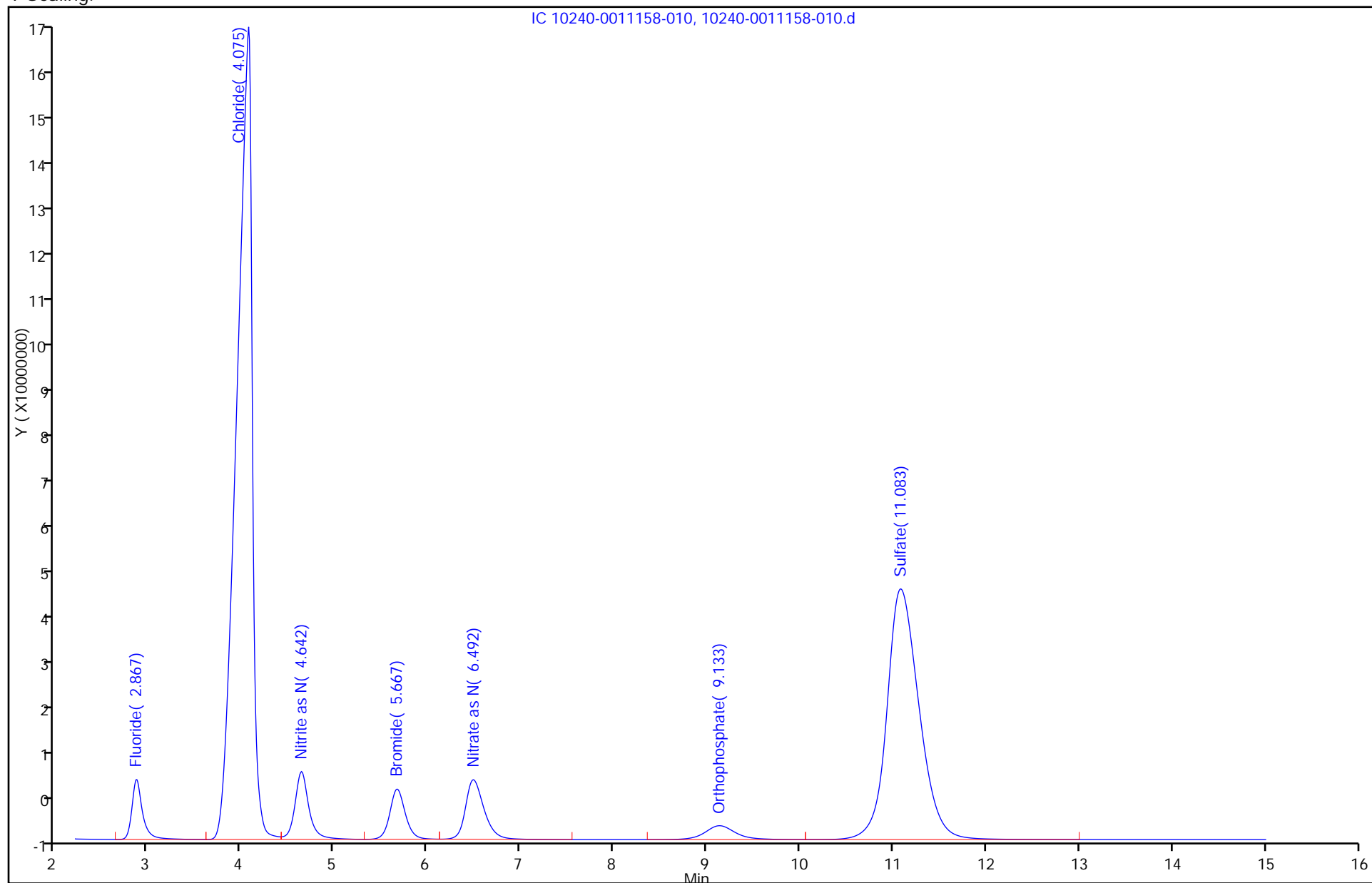
Lims Batch ID: 49129

Lims Sample ID: 10

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Lims ID: STD9 Client ID:
Inject. Date: 28-Jun-2012 11:14:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: 240-0011158-011
Misc. Info.: 11 STD9
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 11
Sublist: chrom-300_G*sub2
Detector: IC 11240-0011158-011
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:49 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:46:23

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.875	2.867	0.008	136539107	11.0	
2 Chloride	4.108	3.983	0.125	2666121341	239.0	
3 Nitrite as N	4.650	4.633	0.017	202112364	0	
4 Bromide	5.667	5.683	-0.016	165670108	44.2	
5 Nitrate as N	6.475	6.533	-0.058	236894205	0	
6 Orthophosphate	9.125	9.158	-0.033	89631276	0	
7 Sulfate	11.042	11.175	-0.133	1732252485	241.3	

Report Date: 28-Jun-2012 12:48:49

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d

Injection Date: 28-Jun-2012 11:14:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

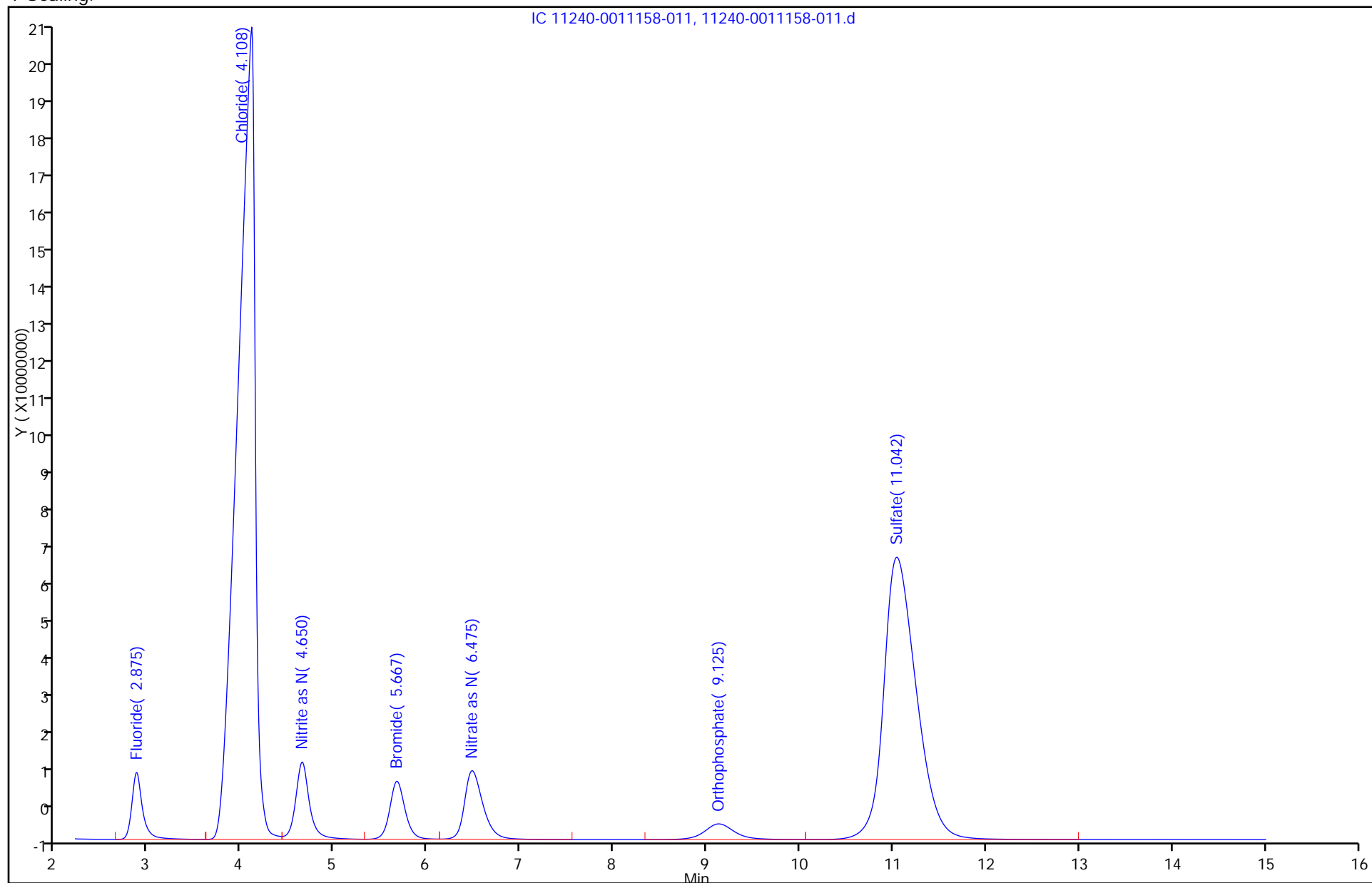
Lims Batch ID: 49129

Lims Sample ID: 11

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



Initial Calibration Batches

Ical Batch: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b
Inj Date : 28-Jun-2012 08:55:00, Sublist: chrom-300_G*sub2

Limit Group: WET IC ICAL

Detector 1 : IC 0001

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	b	M1	M2	%RSD/R^2
1 Fluoride	10944660	11550156	12020684	12130075	12417947	12753263	12883222	13307896	13653911		12406868		Avg 6.9
2 Chloride	8589194	8992785	9372131	10191402	11787731	12428741	12633258	13084816	13330607		11156741		Avg 17
4 Bromide	3485450	3530458	3657922	3550831	3702770	3799333	3847631	4004385	4141753		3746726		Avg 6.0
7 Sulfate	6116669	6156590	6251472	6491087	7164703	7613325	7828269	8336484	8661262		7179985		Avg 14

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\13240-0011158-013.d
Lims ID: ICV Client ID:
Inject. Date: 28-Jun-2012 11:49:00 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0011158-013
Misc. Info.: 13 ICV
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 49129 Lims Sample ID: 13
Sublist:
Detector: IC 13240-0011158-013
Method: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\300_G.m
Last Update: 28-Jun-2012 12:48:49 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 28-Jun-2012 12:46:42

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.875	2.867	0.008	30846050	2.49	
2 Chloride	3.992	3.983	0.009	584063357	52.4	
3 Nitrite as N	4.642	4.633	0.009	46090761	0	
4 Bromide	5.692	5.683	0.009	36684750	9.79	
5 Nitrate as N	6.542	6.533	0.009	52414531	0	
6 Orthophosphate	9.167	9.158	0.009	22351257	0	
7 Sulfate	11.192	11.175	0.017	355981590	49.6	

Report Date: 28-Jun-2012 12:48:50

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\13240-0011158-013.d

Injection Date: 28-Jun-2012 11:49:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

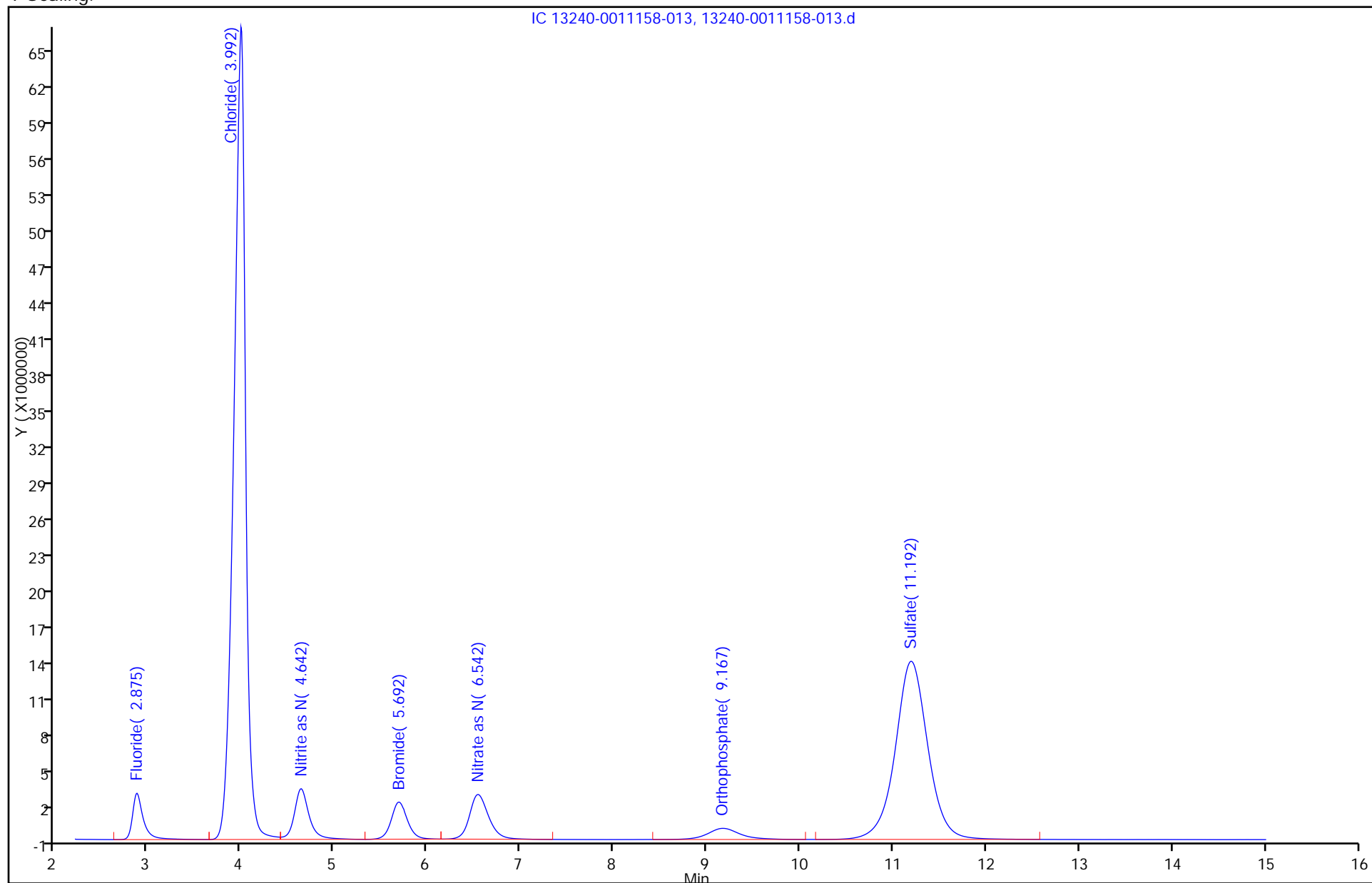
Lims Batch ID: 49129

Lims Sample ID: 13

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\12240-0011394-013.d
Lims ID: ccv Client ID:
Inject. Date: 06-Jul-2012 18:48:00 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0011394-013
Misc. Info.: 12 CCV
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 50113 Lims Sample ID: 13
Detector: IC 12240-0011394-013
Method: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\300_G.m
Last Update: 09-Jul-2012 10:28:23 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.833	2.833	0.0	30169233	2.43	
2 Chloride	3.908	3.908	0.0	564698951	50.6	
3 Nitrite as N	4.525	4.525	0.0	46202157	0	
4 Bromide	5.517	5.517	0.0	35882482	9.58	
5 Nitrate as N	6.325	6.325	0.0	51268241	0	
6 Orthophosphate	8.892	8.892	0.0	20479556	0	
7 Sulfate	10.892	10.892	0.0	344828304	48.0	

Report Date: 09-Jul-2012 10:28:23

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\12240-0011394-013.d

Injection Date: 06-Jul-2012 18:48:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

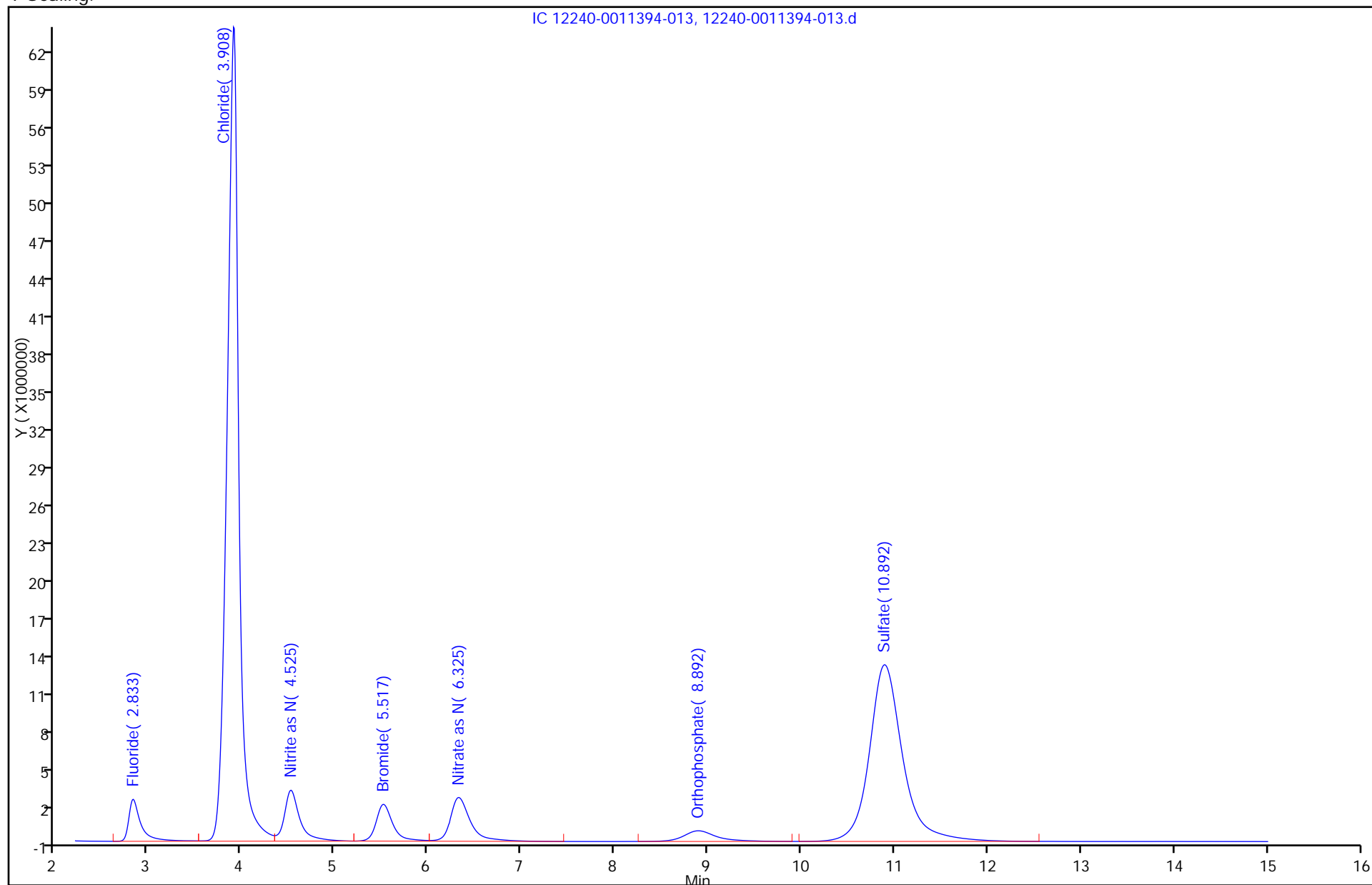
Lims Batch ID: 50113

Lims Sample ID: 13

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\13240-0011394-014.d
Lims ID: ccb Client ID:
Inject. Date: 06-Jul-2012 19:06:00 Dil. Factor: 1.0000
Sample Type: CCB
Sample ID: 240-0011394-014
Misc. Info.: 13 CCB
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 50113 Lims Sample ID: 14
Detector: IC 13240-0011394-014
Method: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\300_G.m
Last Update: 09-Jul-2012 10:28:23 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.833				1
2 Chloride	3.858	3.908	-0.050	1258698	0.1128	
3 Nitrite as N		4.525				1
4 Bromide		5.517				1
5 Nitrate as N	6.017	6.325	-0.308	81956	0	
6 Orthophosphate	9.050	8.892	0.158	102744	0	
7 Sulfate		10.892				

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 09-Jul-2012 10:28:23

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\GARFUNKEL\20120706-11394.b\13240-0011394-014.d

Injection Date: 06-Jul-2012 19:06:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

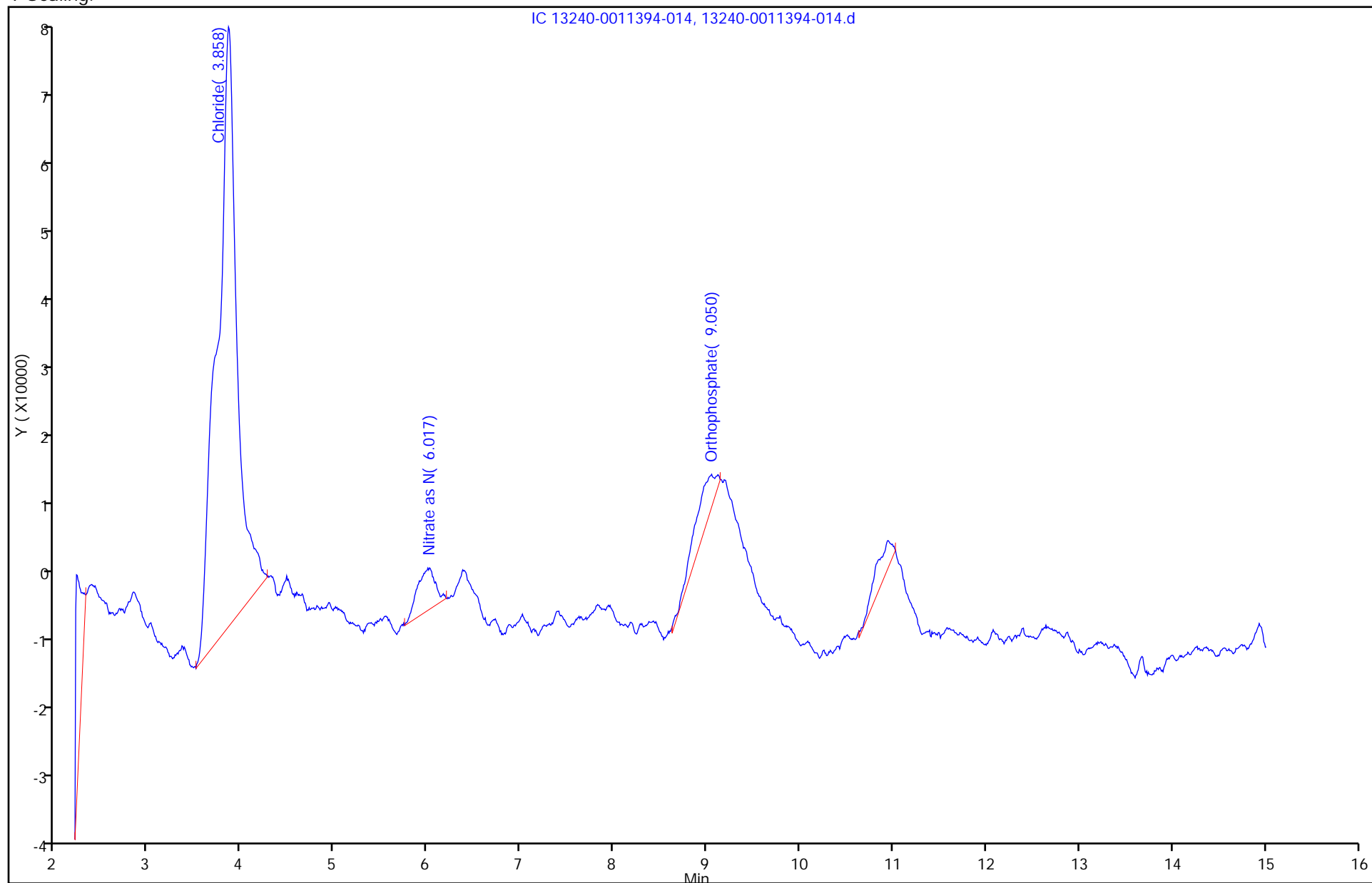
Lims Batch ID: 50113

Lims Sample ID: 14

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\14240-0011394-015.d
Lims ID: MB 240-50108/1-A Client ID:
Inject. Date: 06-Jul-2012 19:23:00 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0011394-015
Misc. Info.: 14 MB 240-50108/1-A
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 50113 Lims Sample ID: 15
Detector: IC 14240-0011394-015
Method: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\300_G.m
Last Update: 09-Jul-2012 10:28:23 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.833				1
2 Chloride	3.858	3.908	-0.050	927728	0.0832	
3 Nitrite as N		4.525				1
4 Bromide		5.517				1
5 Nitrate as N		6.325				1
6 Orthophosphate		8.892				1
7 Sulfate		10.892				

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 09-Jul-2012 10:28:23

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\14240-0011394-015.d

Injection Date: 06-Jul-2012 19:23:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

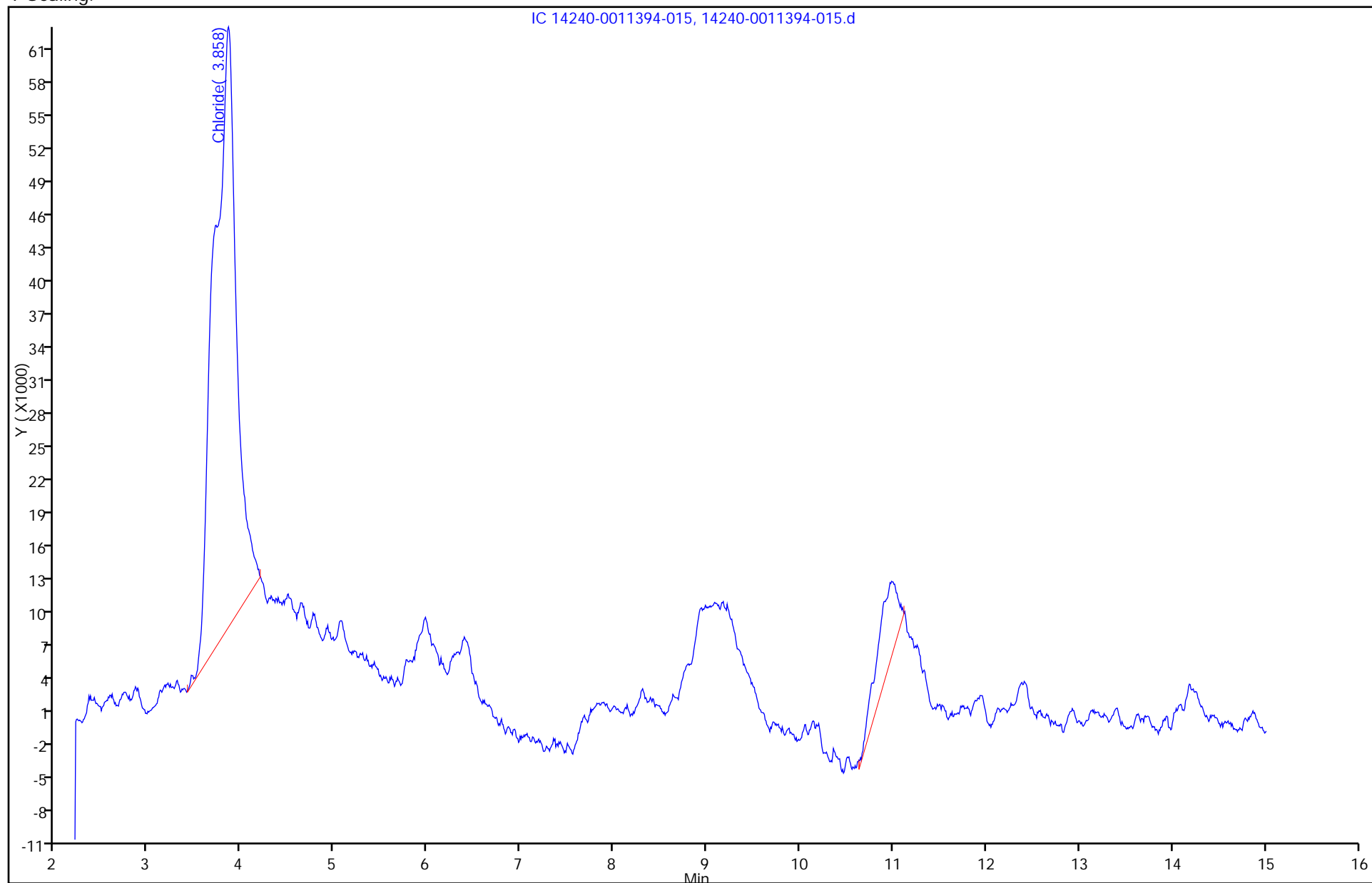
Lims Batch ID: 50113

Lims Sample ID: 15

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\15240-0011394-016.d
Lims ID: LCS 240-50108/2-A Client ID:
Inject. Date: 06-Jul-2012 19:41:00 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0011394-016
Misc. Info.: 15 LCS 240-50108/2-A
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 50113 Lims Sample ID: 16
Detector: IC 15240-0011394-016
Method: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\300_G.m
Last Update: 09-Jul-2012 10:28:23 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.825	2.833	-0.008	30240983	2.44	
2 Chloride	3.900	3.908	-0.008	573335231	51.4	
3 Nitrite as N	4.517	4.525	-0.008	46225302	0	
4 Bromide	5.508	5.517	-0.009	36452206	9.73	
5 Nitrate as N	6.308	6.325	-0.017	53022729	0	
6 Orthophosphate	8.883	8.892	-0.009	20615356	0	
7 Sulfate	10.883	10.892	-0.009	352401397	49.1	

Report Date: 09-Jul-2012 10:28:23

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\15240-0011394-016.d

Injection Date: 06-Jul-2012 19:41:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

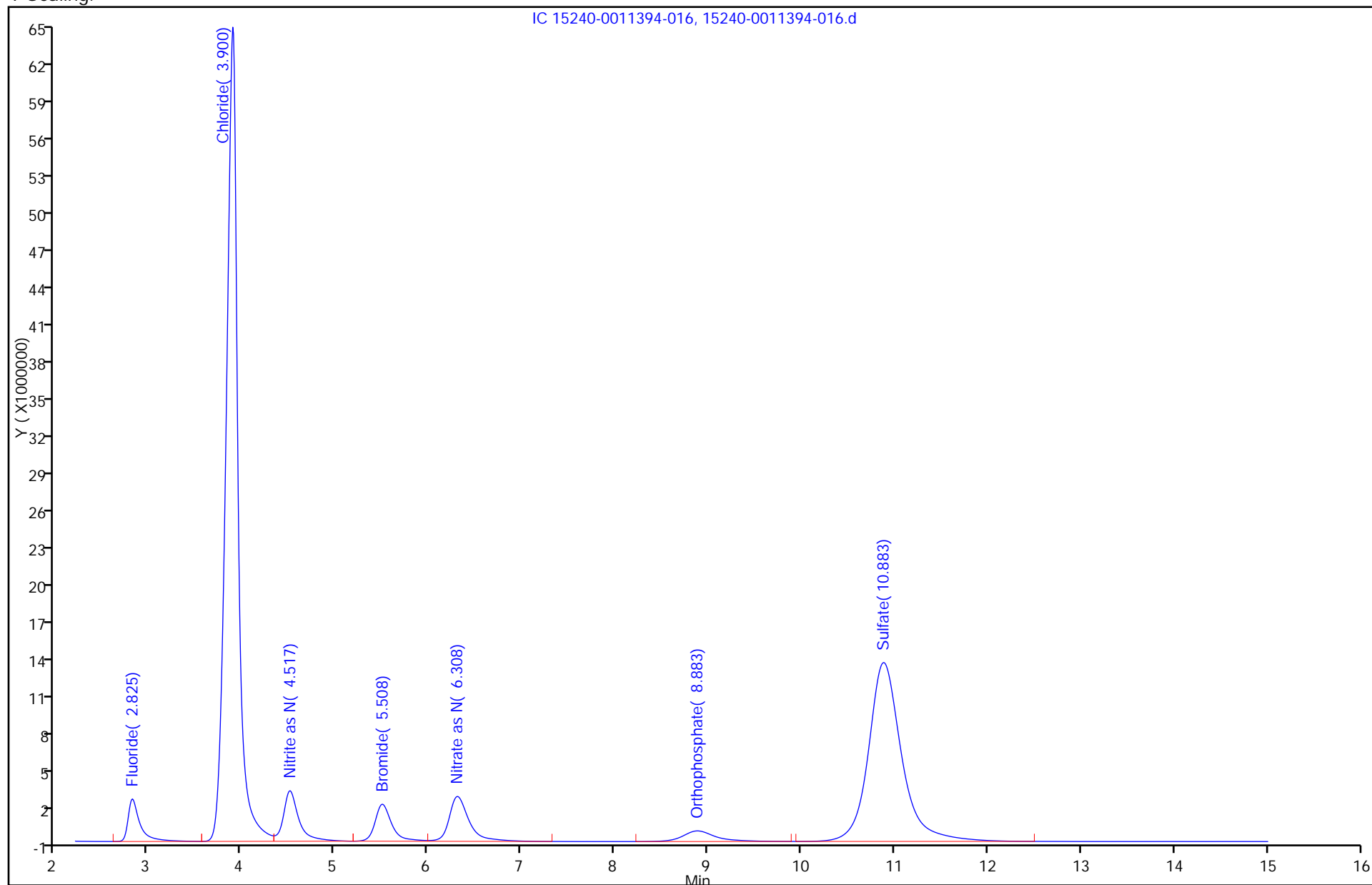
Lims Batch ID: 50113

Lims Sample ID: 16

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\16240-0011394-017.d
Lims ID: 240-12605-D-1-G Client ID: MW-101(20120622)
Inject. Date: 06-Jul-2012 19:58:00 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011394-017
Misc. Info.: 16 240-12605-D-1-G
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 50113 Lims Sample ID: 17
Detector: IC 16240-0011394-017
Method: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\300_G.m
Last Update: 09-Jul-2012 10:28:23 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: burnsj

Date: 09-Jul-2012 10:12:31

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.850	2.833	0.017	527869	0.0425	M
2 Chloride	3.908	3.908	0.0	82012664	7.35	
3 Nitrite as N		4.525				1
4 Bromide	5.533	5.517	0.016	329689	0.0880	
5 Nitrate as N	6.358	6.325	0.033	18667671	0	
6 Orthophosphate	9.100	8.892	0.208	1921271	0	
7 Sulfate	10.958	10.892	0.066	51725031	7.20	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 09-Jul-2012 10:28:24

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\16240-0011394-017.d

Injection Date: 06-Jul-2012 19:58:00

Limit Group: WET IC ICAL

Client ID: MW-101(20120622)

Instrument ID: GARFUNKEL

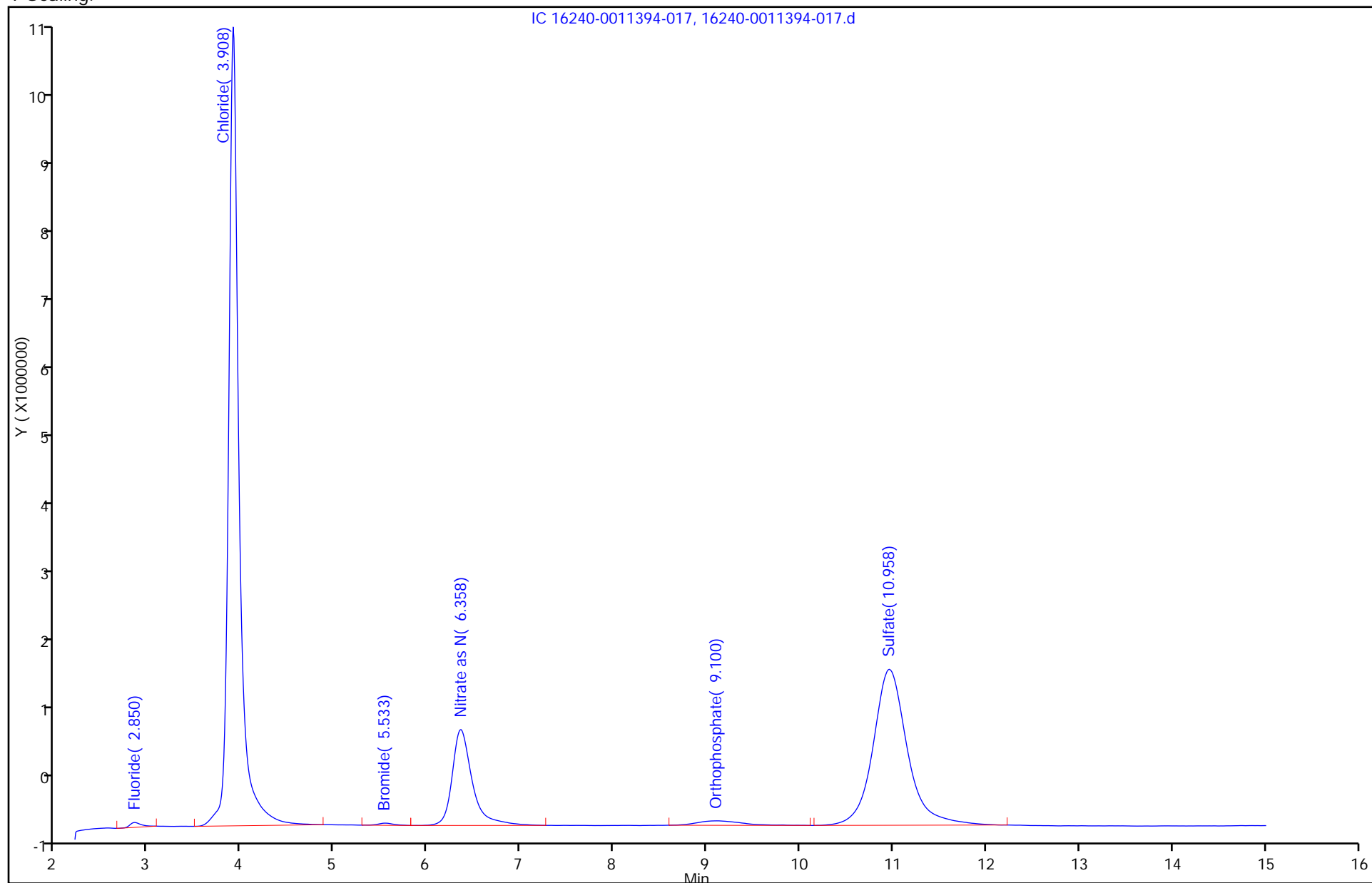
Lims Batch ID: 50113

Lims Sample ID: 17

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:

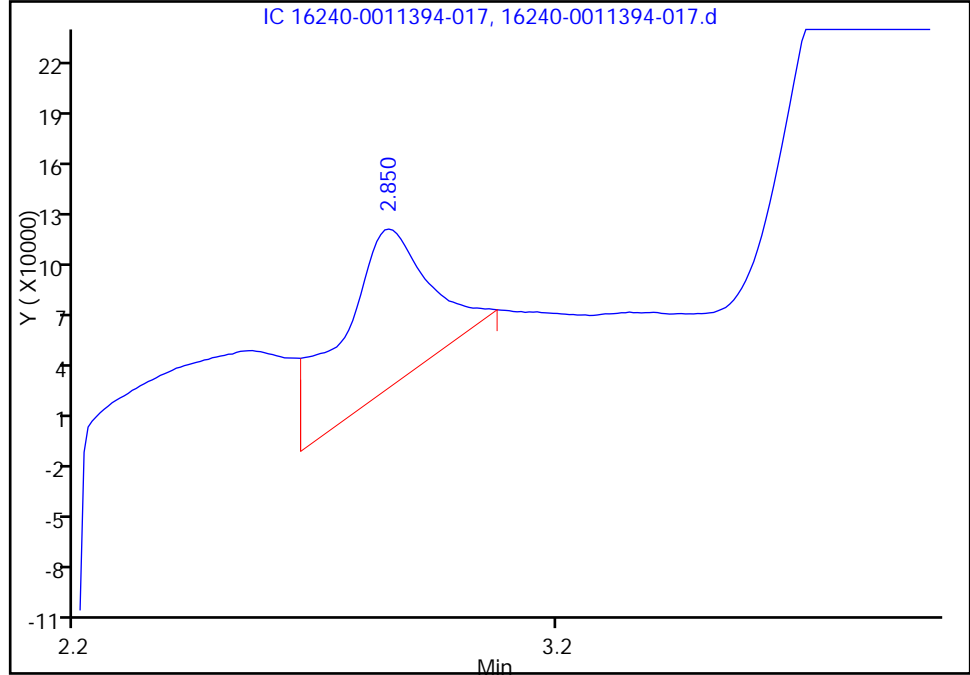


Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\16240-0011394-017.d
Injection Date: 06-Jul-2012 19:58:00 Limit Group: WET IC ICAL
Client ID: MW-101(20120622) Instrument ID: GARFUNKEL
Lims Batch ID: 50113 Lims Sample ID: 17
Operator ID: Injection Vol: 25.00 ul

1 Fluoride, Signal: 1, Type: quant, RT: 2.83

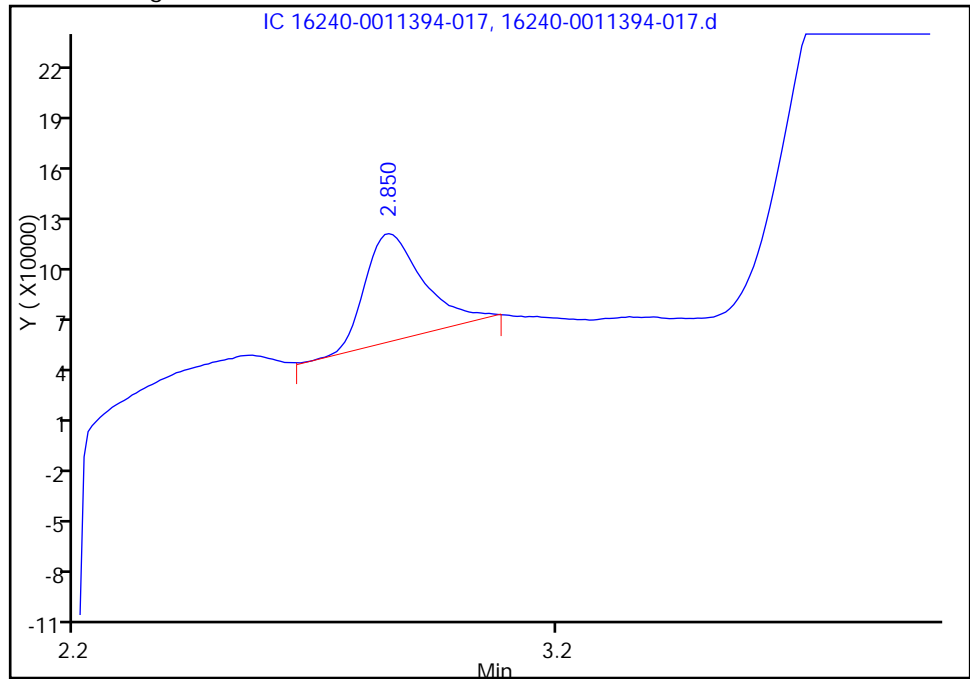
RT: 2.85
Response: 1180625
Amount: 0.095159

Processing Integration Results



RT: 2.85
Response: 527869
Amount: 0.042547

Manual Integration Results



Reviewer: burnsj, 09-Jul-2012 10:12:31
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\17240-0011394-018.d
Lims ID: 240-12605-D-1-H MS Client ID:
Inject. Date: 06-Jul-2012 20:15:00 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0011394-018
Misc. Info.: 17 240-12605-D-1-H MS
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 50113 Lims Sample ID: 18
Detector: IC 17240-0011394-018
Method: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\300_G.m
Last Update: 09-Jul-2012 10:28:23 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.833	2.833	0.0	34184424	2.76	
2 Chloride	3.958	3.908	0.050	711884199	63.8	
3 Nitrite as N	4.542	4.525	0.017	50289244	0	
4 Bromide	5.525	5.517	0.008	39909206	10.7	
5 Nitrate as N	6.317	6.325	-0.008	75046093	0	
6 Orthophosphate	8.933	8.892	0.041	37392406	0	
7 Sulfate	10.900	10.892	0.008	429466144	59.8	

Report Date: 09-Jul-2012 10:28:24

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\17240-0011394-018.d

Injection Date: 06-Jul-2012 20:15:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

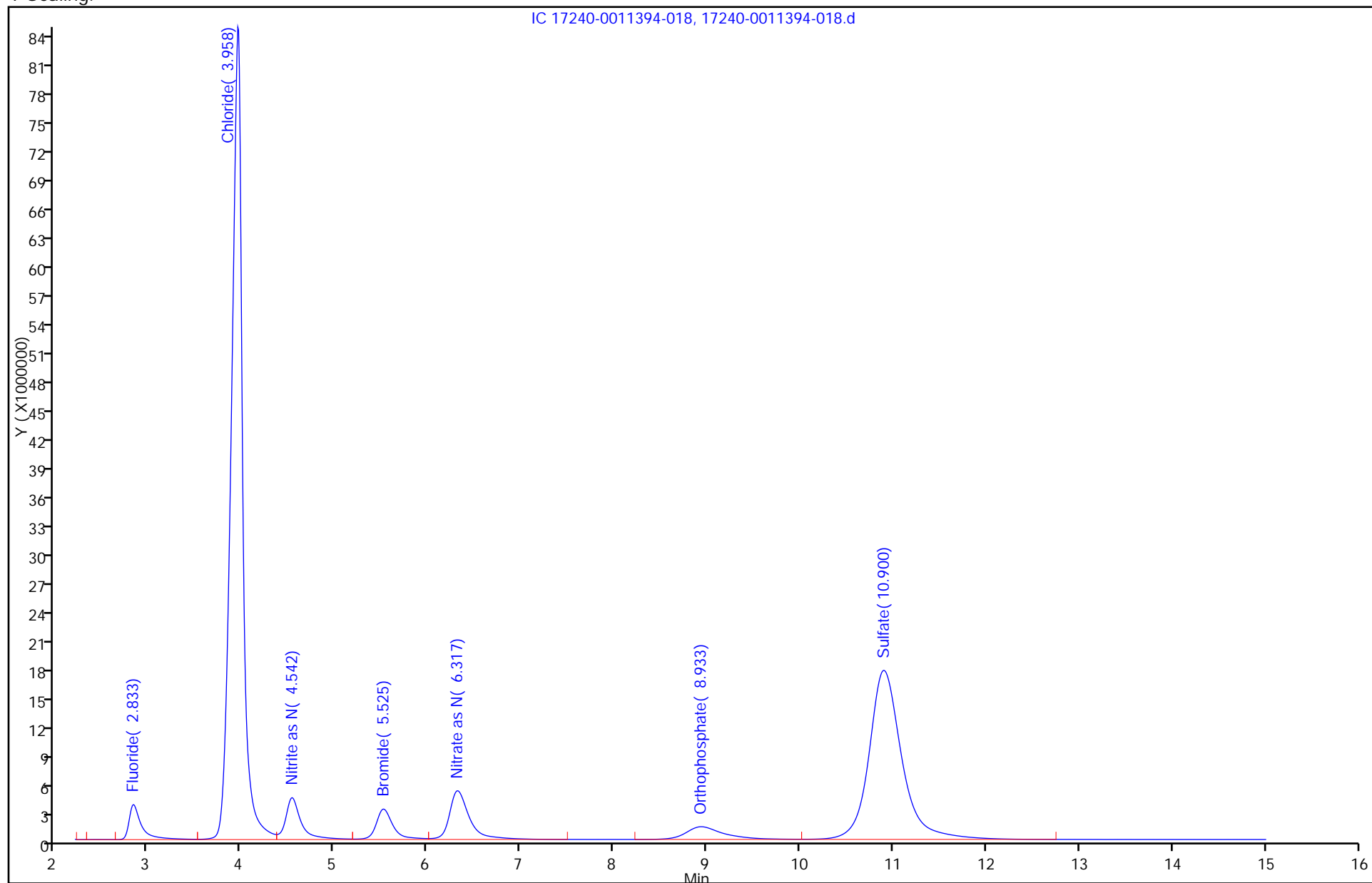
Lims Batch ID: 50113

Lims Sample ID: 18

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\18240-0011394-019.d
Lims ID: ccv Client ID:
Inject. Date: 06-Jul-2012 20:33:00 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0011394-019
Misc. Info.: 18 CCV
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 50113 Lims Sample ID: 19
Detector: IC 18240-0011394-019
Method: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\300_G.m
Last Update: 09-Jul-2012 10:28:24 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.833	2.833	0.0	30045019	2.42	
2 Chloride	3.908	3.908	0.0	565431529	50.7	
3 Nitrite as N	4.525	4.525	0.0	46285241	0	
4 Bromide	5.517	5.517	0.0	35919098	9.59	
5 Nitrate as N	6.317	6.317	0.0	51451612	0	
6 Orthophosphate	8.900	8.900	0.0	23336468	0	
7 Sulfate	10.892	10.892	0.0	345928606	48.2	

Report Date: 09-Jul-2012 10:28:24

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\18240-0011394-019.d

Injection Date: 06-Jul-2012 20:33:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

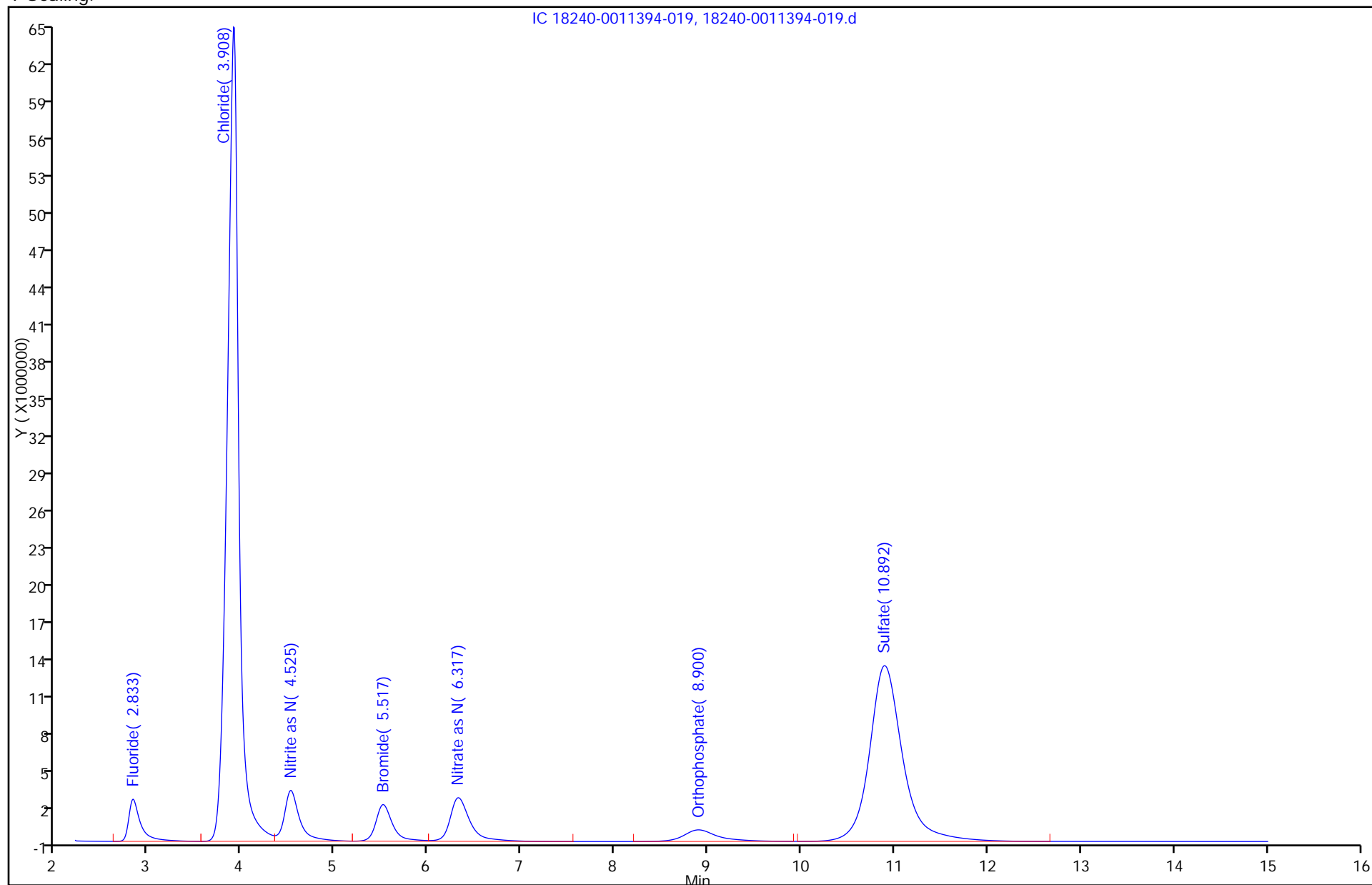
Lims Batch ID: 50113

Lims Sample ID: 19

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\19240-0011394-020.d
Lims ID: ccb Client ID:
Inject. Date: 06-Jul-2012 20:50:00 Dil. Factor: 1.0000
Sample Type: CCB
Sample ID: 240-0011394-020
Misc. Info.: 19 CCB
Operator: Instrument ID: GARFUNKEL
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 50113 Lims Sample ID: 20
Detector: IC 19240-0011394-020
Method: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\300_G.m
Last Update: 09-Jul-2012 10:28:24 Calib Date: 28-Jun-2012 11:14:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\GARFUNKEL\20120627-11158.b\11240-0011158-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: burns

Date: 09-Jul-2012 10:13:21

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.833				1
2 Chloride	3.867	3.908	-0.041	653639	0.0586	7
3 Nitrite as N		4.525				1
4 Bromide		5.517				1
5 Nitrate as N		6.317				1
6 Orthophosphate	9.017	8.900	0.117	103564	0	
7 Sulfate		10.892				1

QC Flag Legend

Processing Flags

1 - Missing Peaks

7 - Failed Limit of Detection

Report Date: 09-Jul-2012 10:28:24

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\GARFUNKEL\20120706-11394.b\19240-0011394-020.d

Injection Date: 06-Jul-2012 20:50:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: GARFUNKEL

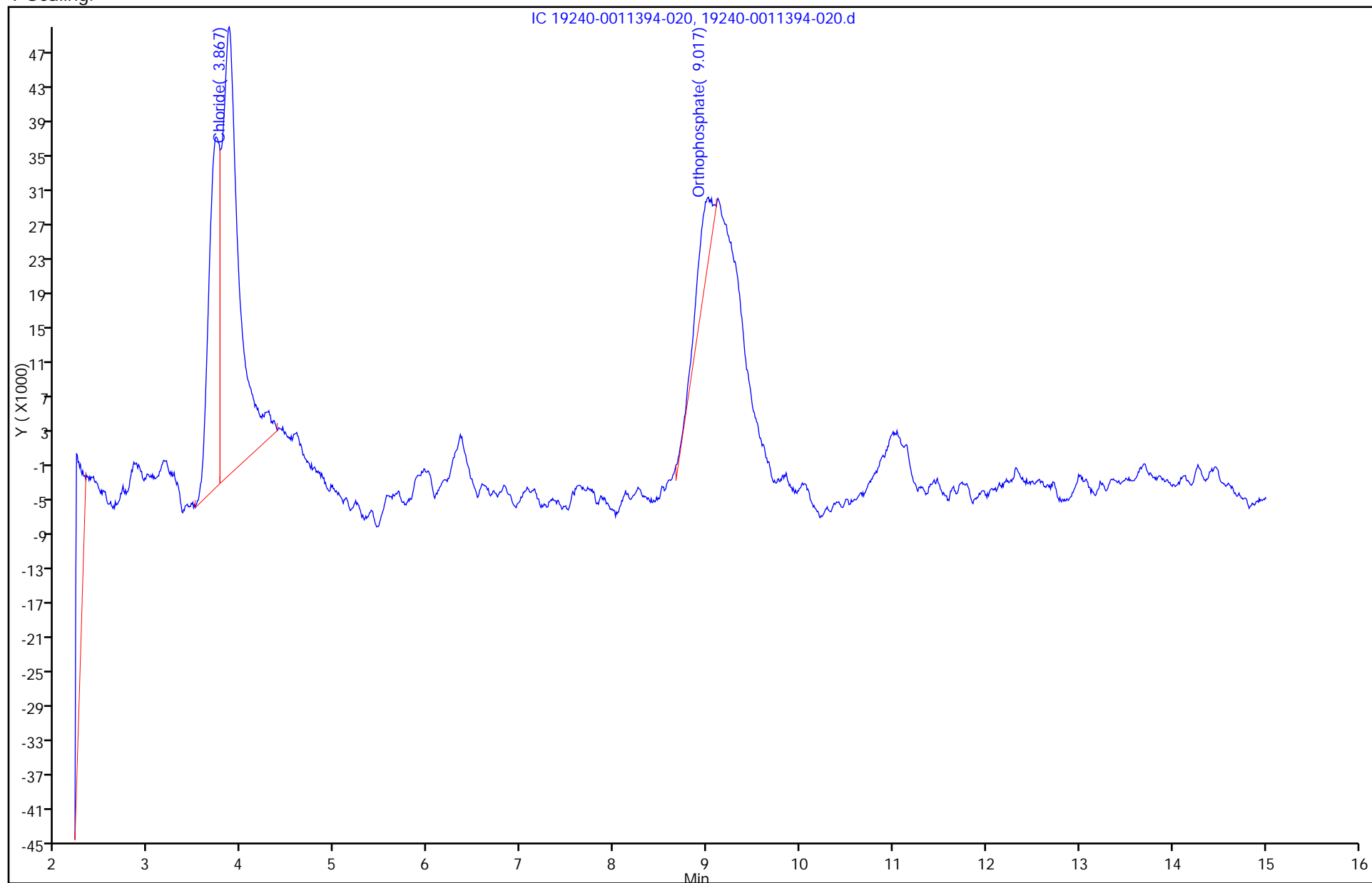
Lims Batch ID: 50113

Lims Sample ID: 20

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\3240-0010901-003.d
Lims ID: STD1 Client ID:
Inject. Date: 22-Jun-2012 17:01:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0010901-003
Misc. Info.: 3 STD1
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48117 Lims Sample ID: 3
Sublist: chrom-300_Simon*sub1
Detector: IC 3240-0010901-003
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:38 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 26-Jun-2012 07:34:42

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.642	2.617	0.025	470128	0.0426	
2 Chloride	3.592	3.617	-0.025	10134738	0.9570	
3 Nitrite as N	4.184	4.167	0.017	802606	0	
4 Bromide	5.125	5.083	0.042	546191	0.1609	
5 Nitrate as N	5.892	5.817	0.075	971157	0	
6 Orthophosphate	8.092	8.033	0.059	703223	0	M
7 Sulfate	9.809	9.708	0.101	5574554	0.8451	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 08:59:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\3240-0010901-003.d

Injection Date: 22-Jun-2012 17:01:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

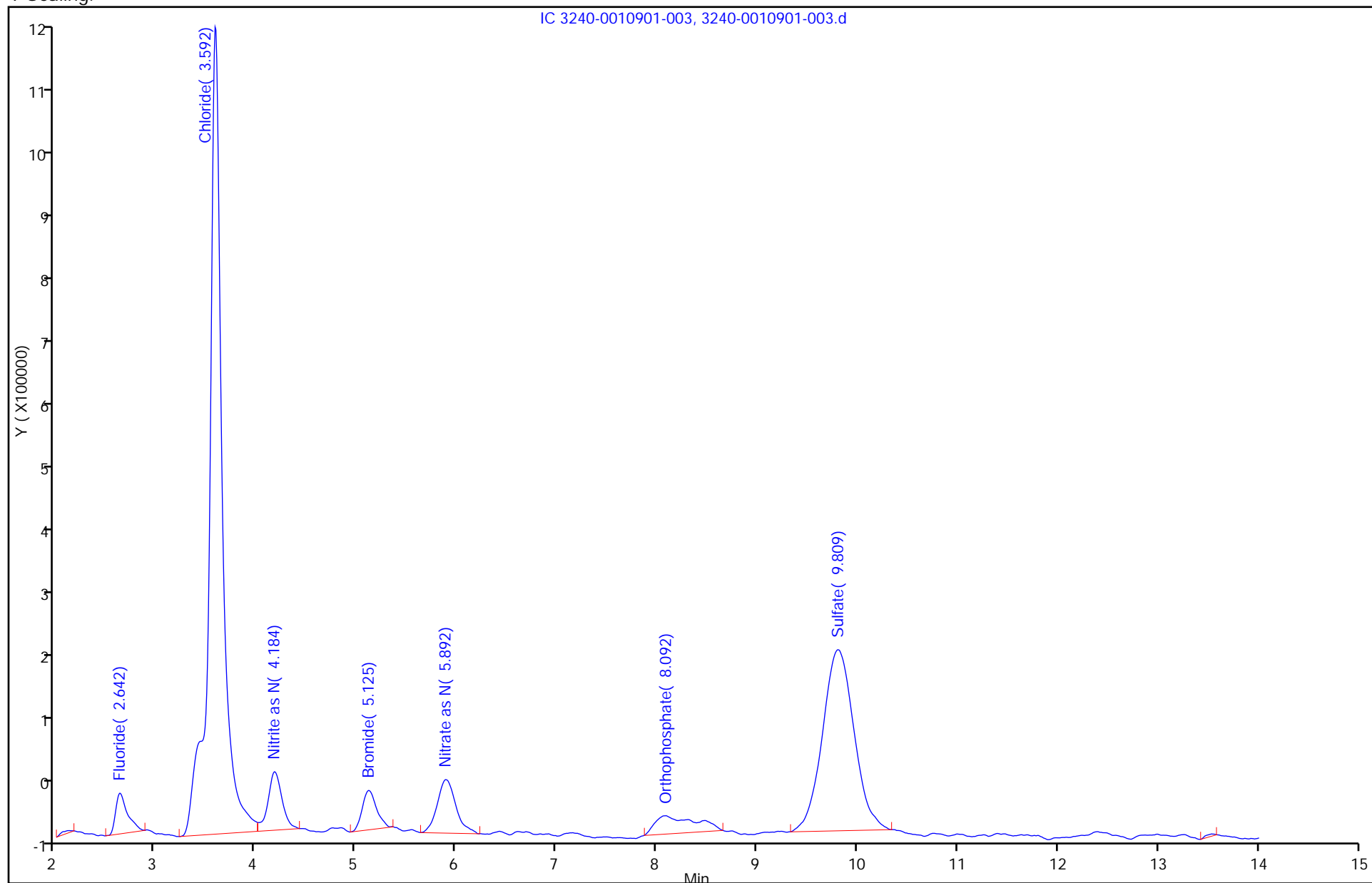
Lims Batch ID: 48117

Lims Sample ID: 3

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\3240-0010901-003.d
Lims ID: STD1 Client ID:
Inject. Date: 22-Jun-2012 17:01:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0010901-003
Misc. Info.: 3 STD1
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48118 Lims Sample ID: 3
Sublist: chrom-300_Simon*sub1
Detector: IC 3240-0010901-003
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:38 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

First Level Reviewer: grossmanl

Date: 26-Jun-2012 07:34:42

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.642	2.617	0.025	470128	0	
2 Chloride	3.592	3.617	-0.025	10134738	0	
3 Nitrite as N	4.184	4.167	0.017	802606	0.0470	
4 Bromide	5.125	5.083	0.042	546191	0	
5 Nitrate as N	5.892	5.817	0.075	971157	0.0488	
6 Orthophosphate	8.092	8.033	0.059	703223	0.0703	M
7 Sulfate	9.809	9.708	0.101	5574554	0	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 08:59:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\3240-0010901-003.d

Injection Date: 22-Jun-2012 17:01:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

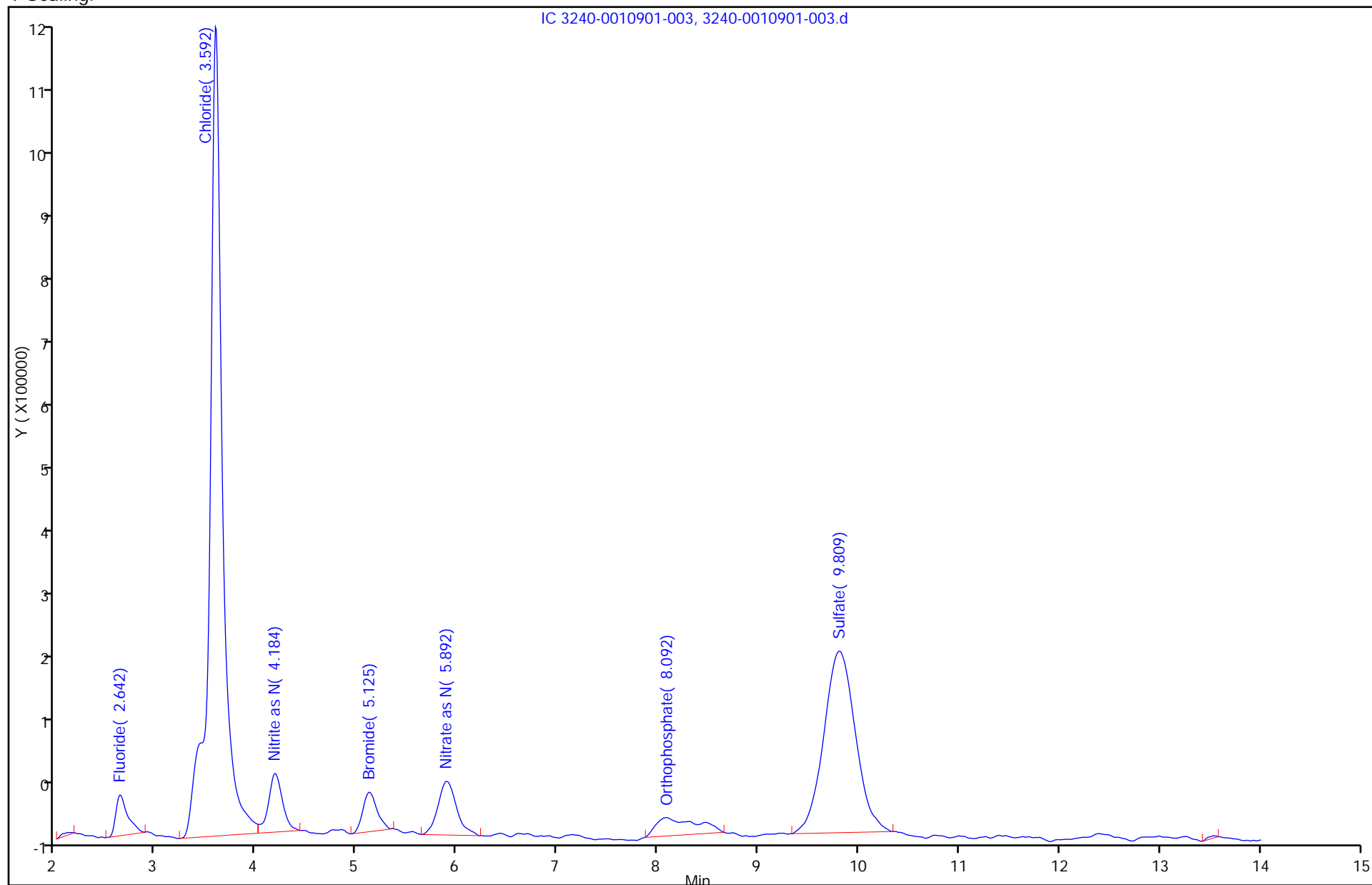
Lims Batch ID: 48118

Lims Sample ID: 3

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:

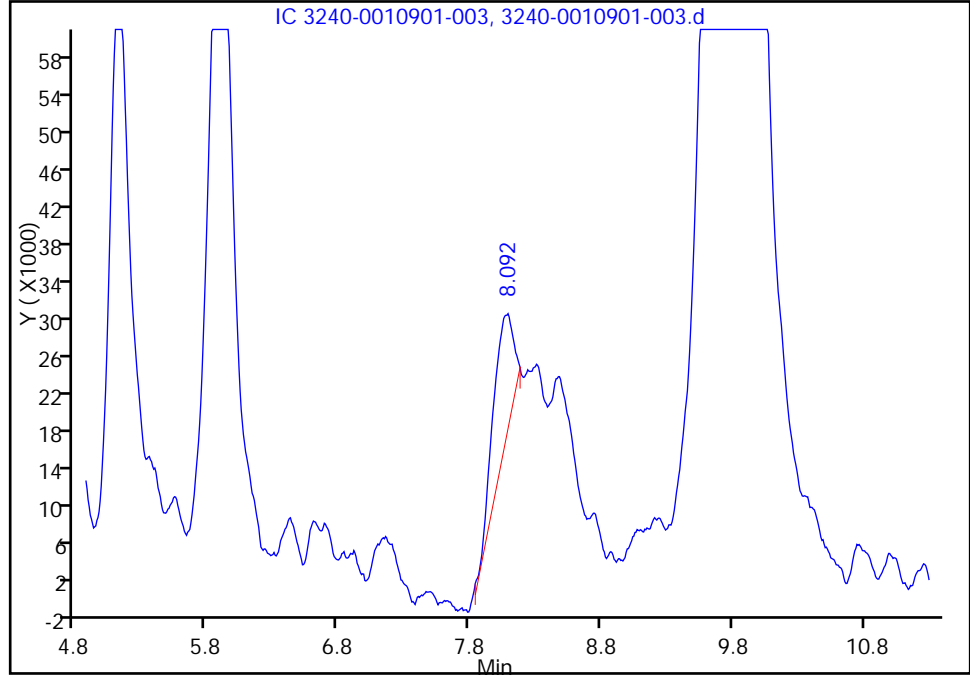


Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\3240-0010901-003.d
Injection Date: 22-Jun-2012 17:01:00 Limit Group: WET IC SH ICAL
Client ID: Instrument ID: SIMON
Lims Batch ID: 48118 Lims Sample ID: 3
Operator ID: Injection Vol: 25.00 ul

6 Orthophosphate, Signal: 1, Type: quant, RT: 8.03

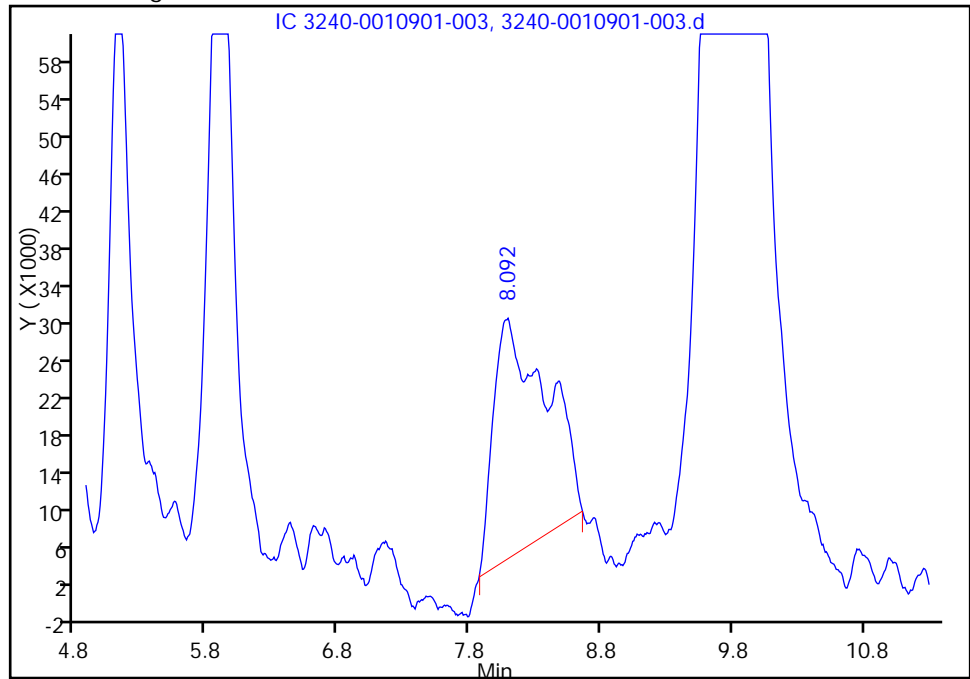
RT: 8.09
Response: 149419
Amount: 0.031842

Processing Integration Results



RT: 8.09
Response: 703223
Amount: 0.070274

Manual Integration Results



Reviewer: grossmanl, 26-Jun-2012 08:37:34

Audit Action: Manually Integrated

Audit Reason: Baseline Event

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\4240-0010901-004.d
Lims ID: STD2 Client ID:
Inject. Date: 22-Jun-2012 17:17:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0010901-004
Misc. Info.: 4 STD2
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48117 Lims Sample ID: 4
Sublist: chrom-300_Simon*sub1
Detector: IC 4240-0010901-004
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:38 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.650	2.617	0.033	2398935	0.2174	
2 Chloride	3.609	3.617	-0.008	43744494	4.13	
3 Nitrite as N	4.200	4.167	0.033	3980985	0	
4 Bromide	5.142	5.083	0.059	3437302	1.01	
5 Nitrate as N	5.909	5.817	0.092	4663353	0	
6 Orthophosphate	8.117	8.033	0.084	2334207	0	
7 Sulfate	9.809	9.708	0.101	27819877	4.22	

Report Date: 26-Jun-2012 08:59:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\4240-0010901-004.d

Injection Date: 22-Jun-2012 17:17:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

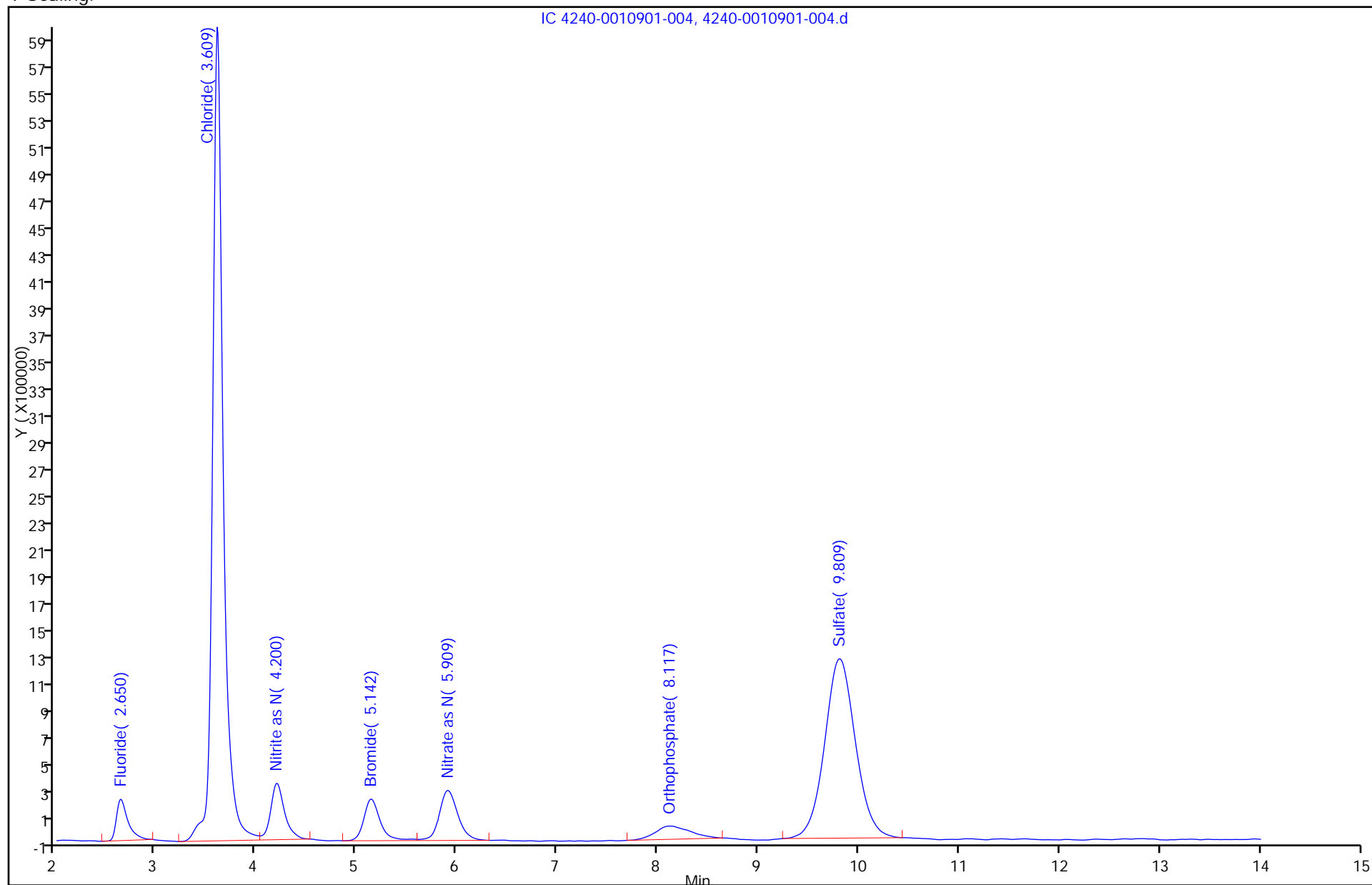
Lims Batch ID: 48117

Lims Sample ID: 4

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\4240-0010901-004.d
Lims ID: STD2 Client ID:
Inject. Date: 22-Jun-2012 17:17:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0010901-004
Misc. Info.: 4 STD2
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48118 Lims Sample ID: 4
Sublist: chrom-300_Simon*sub1
Detector: IC 4240-0010901-004
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:38 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.650	2.617	0.033	2398935	0	
2 Chloride	3.609	3.617	-0.008	43744494	0	
3 Nitrite as N	4.200	4.167	0.033	3980985	0.2331	
4 Bromide	5.142	5.083	0.059	3437302	0	
5 Nitrate as N	5.909	5.817	0.092	4663353	0.2343	
6 Orthophosphate	8.117	8.033	0.084	2334207	0.2333	
7 Sulfate	9.809	9.708	0.101	27819877	0	

Report Date: 26-Jun-2012 08:59:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\4240-0010901-004.d

Injection Date: 22-Jun-2012 17:17:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

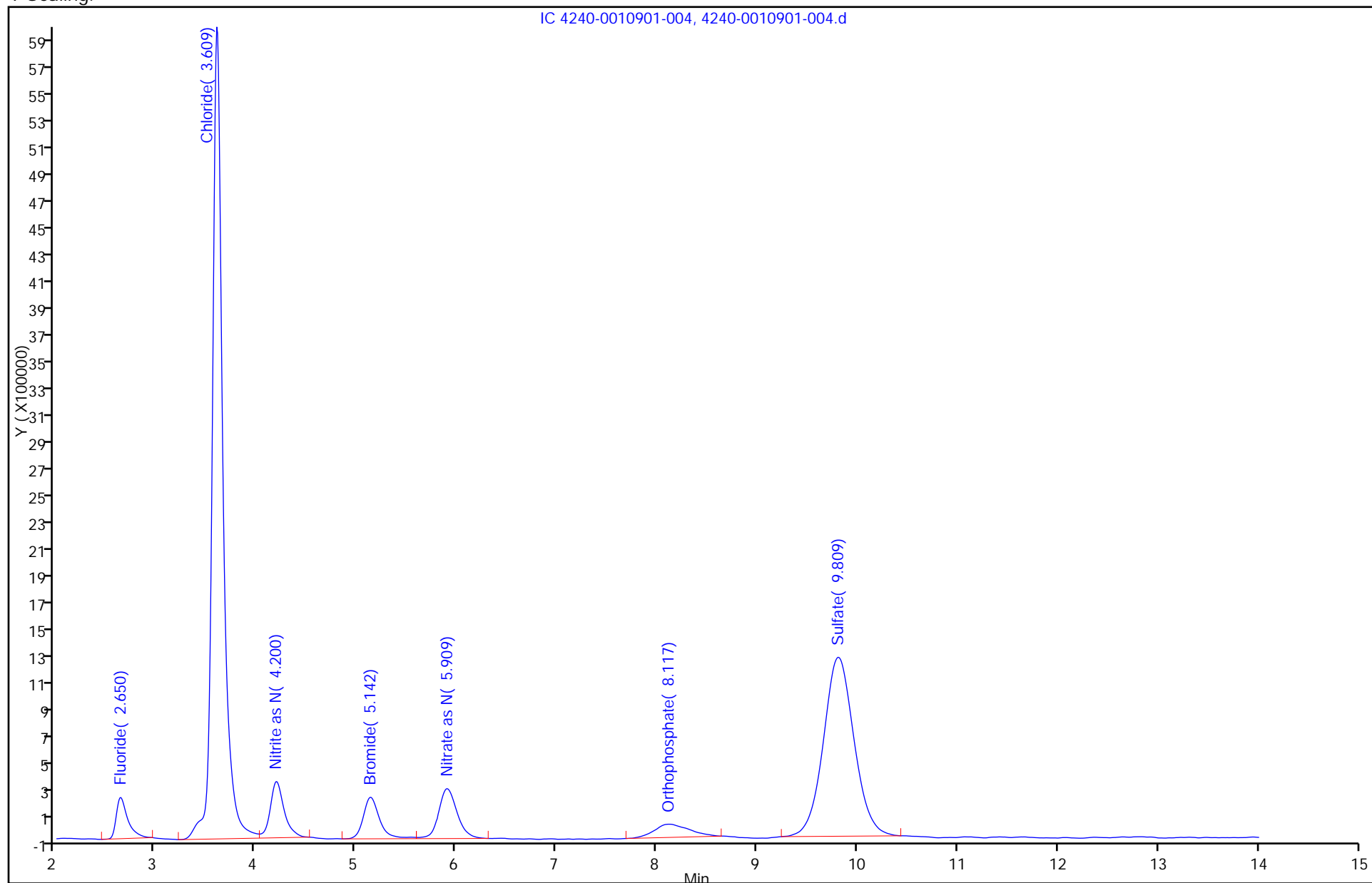
Lims Batch ID: 48118

Lims Sample ID: 4

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\5240-0010901-005.d
Lims ID: STD3 Client ID:
Inject. Date: 22-Jun-2012 17:33:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0010901-005
Misc. Info.: 5 STD3
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48117 Lims Sample ID: 5
Sublist: chrom-300_Simon*sub1
Detector: IC 5240-0010901-005
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:38 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.634	2.617	0.017	5424580	0.4915	
2 Chloride	3.600	3.617	-0.017	89277309	8.43	
3 Nitrite as N	4.184	4.167	0.017	8323448	0	
4 Bromide	5.117	5.083	0.034	6600987	1.94	
5 Nitrate as N	5.875	5.817	0.058	9293875	0	
6 Orthophosphate	8.092	8.033	0.059	5193435	0	
7 Sulfate	9.775	9.708	0.067	57831404	8.77	

Report Date: 26-Jun-2012 08:59:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\5240-0010901-005.d

Injection Date: 22-Jun-2012 17:33:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

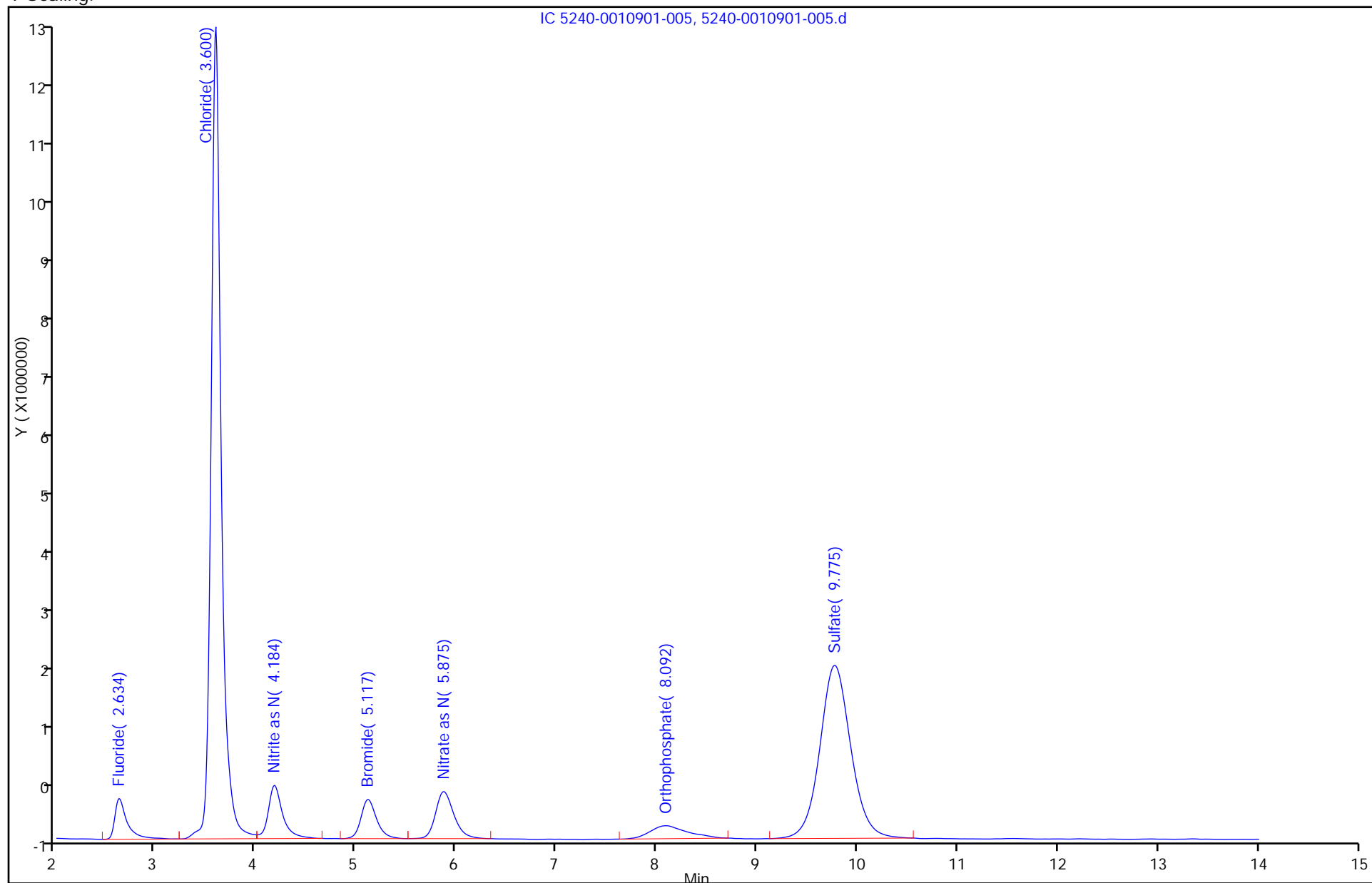
Lims Batch ID: 48117

Lims Sample ID: 5

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\5240-0010901-005.d
 Lims ID: STD3 Client ID:
 Inject. Date: 22-Jun-2012 17:33:00 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: 240-0010901-005
 Misc. Info.: 5 STD3
 Operator: Instrument ID: SIMON
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 48118 Lims Sample ID: 5
 Sublist: chrom-300_Simon*sub1
 Detector: IC 5240-0010901-005
 Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
 Last Update: 26-Jun-2012 08:59:38 Calib Date: 22-Jun-2012 19:12:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
 Limit Group: WET IC SH ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.634	2.617	0.017	5424580	0	
2 Chloride	3.600	3.617	-0.017	89277309	0	
3 Nitrite as N	4.184	4.167	0.017	8323448	0.4874	
4 Bromide	5.117	5.083	0.034	6600987	0	
5 Nitrate as N	5.875	5.817	0.058	9293875	0.4670	
6 Orthophosphate	8.092	8.033	0.059	5193435	0.5190	
7 Sulfate	9.775	9.708	0.067	57831404	0	

Report Date: 26-Jun-2012 08:59:38

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\5240-0010901-005.d

Injection Date: 22-Jun-2012 17:33:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

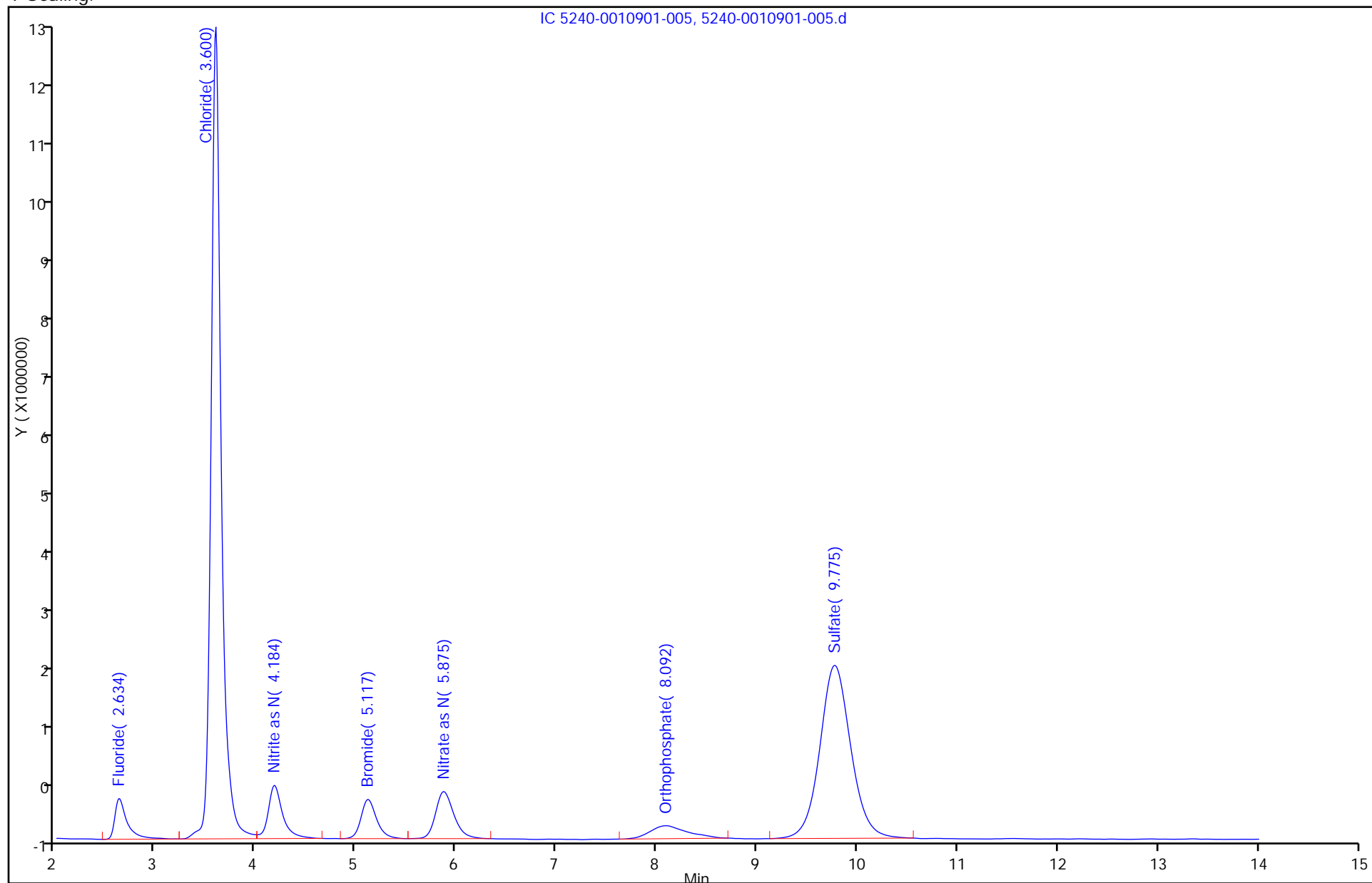
Lims Batch ID: 48118

Lims Sample ID: 5

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
IC, ICal Standard Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\6240-0010901-006.d
 Lims ID: STD4 Client ID:
 Inject. Date: 22-Jun-2012 17:50:00 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: 240-0010901-006
 Misc. Info.: 6 STD4
 Operator: Instrument ID: SIMON
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 48117 Lims Sample ID: 6
 Sublist: chrom-300_Simon*sub1
 Detector: IC 6240-0010901-006
 Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
 Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
 Limit Group: WET IC ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-15
 Start Cal Date: 22-Jun-2012 17:01:00
 End Cal Date: 22-Jun-2012 19:12:00

Compound	Standard RRF/Amount	DLT RT	Ccal Amount	Ccal RF	Min. RRF	%D	Max. %D
1 Fluoride	11036315	0.017		10876201	0.000	-1.5	10.0
2 Chloride	10590035	0.000		9552434	0.000	-9.8	10.0
4 Bromide	3394831	0.034		3279282	0.000	-3.4	10.0
7 Sulfate	6596252	0.067		5940326	0.000	-9.9	10.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\6240-0010901-006.d
 Lims ID: STD4 Client ID:
 Inject. Date: 22-Jun-2012 17:50:00 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: 240-0010901-006
 Misc. Info.: 6 STD4
 Operator: Instrument ID: SIMON
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 48117 Lims Sample ID: 6
 Sublist: chrom-300_Simon*sub1
 Detector: IC 6240-0010901-006
 Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
 Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
 Limit Group: WET IC ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.634	2.617	0.017	10876201	0.9855	
2 Chloride	3.617	3.617	0.0	191048685	18.0	
3 Nitrite as N	4.192	4.167	0.025	16604114	0	
4 Bromide	5.117	5.083	0.034	13117129	3.86	
5 Nitrate as N	5.867	5.817	0.050	18731006	0	
6 Orthophosphate	8.084	8.033	0.051	10324872	0	
7 Sulfate	9.775	9.708	0.067	118806517	18.0	

Report Date: 26-Jun-2012 08:59:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\6240-0010901-006.d

Injection Date: 22-Jun-2012 17:50:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

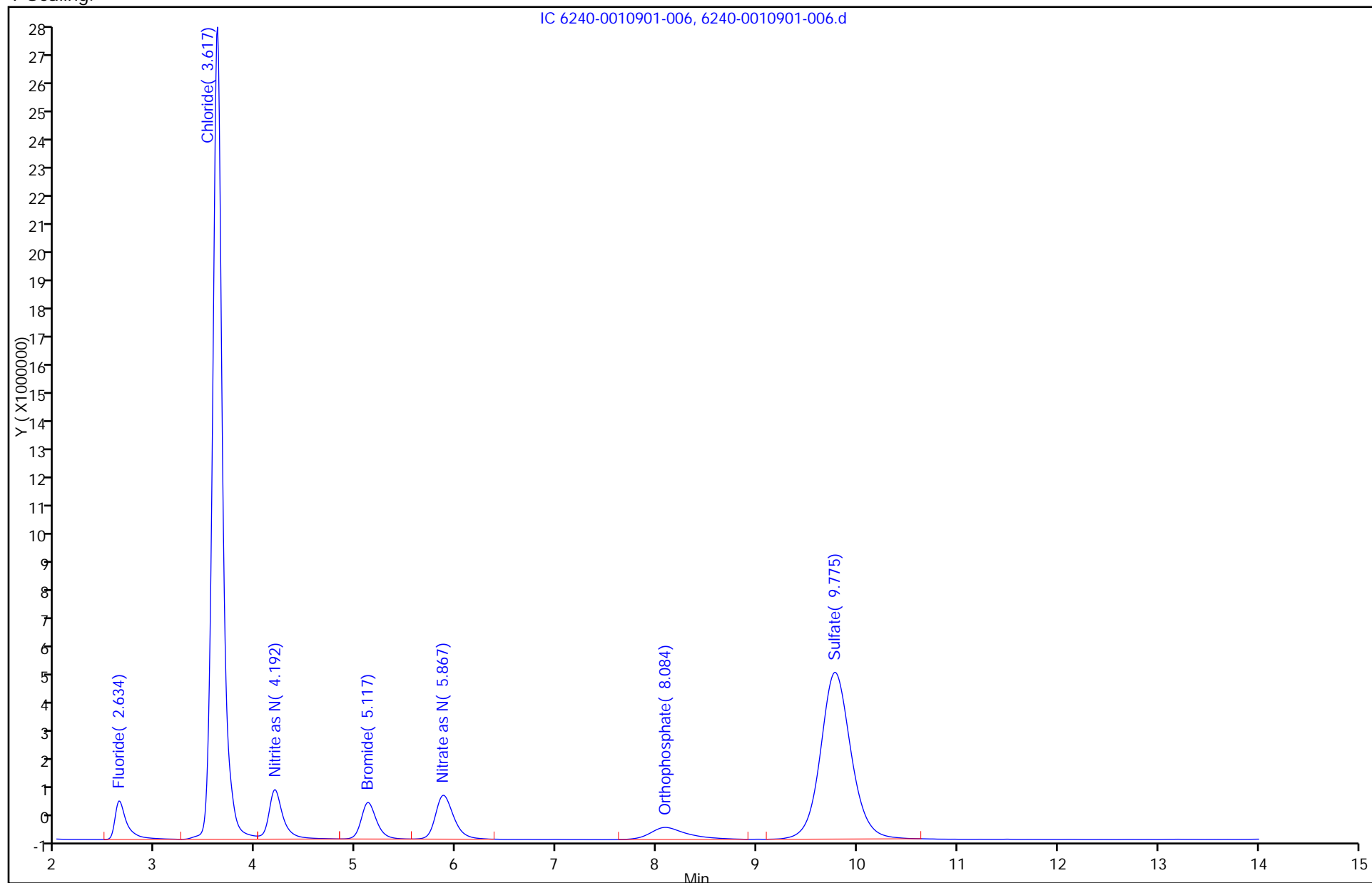
Lims Batch ID: 48117

Lims Sample ID: 6

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
IC, ICal Standard Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\6240-0010901-006.d
 Lims ID: STD4 Client ID:
 Inject. Date: 22-Jun-2012 17:50:00 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: 240-0010901-006
 Misc. Info.: 6 STD4
 Operator: Instrument ID: SIMON
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 48118 Lims Sample ID: 6
 Sublist: chrom-300_Simon*sub1
 Detector: IC 6240-0010901-006
 Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
 Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
 Limit Group: WET IC SH ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-15
 Start Cal Date: 22-Jun-2012 17:01:00
 End Cal Date: 22-Jun-2012 19:12:00

Compound	Standard RRF/Amount	DLT RT	Ccal Amount	Ccal RF	Min. RRF	%D	Max. %D
3 Nitrite as N	17076605	0.025		16604114	0.000	-2.8	10.0
5 Nitrate as N	19901191	0.050		18731006	0.000	-5.9	10.0
6 Orthophosphate	10006849	0.051		10324872	0.000	3.2	10.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\6240-0010901-006.d
 Lims ID: STD4 Client ID:
 Inject. Date: 22-Jun-2012 17:50:00 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: 240-0010901-006
 Misc. Info.: 6 STD4
 Operator: Instrument ID: SIMON
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 48118 Lims Sample ID: 6
 Sublist: chrom-300_Simon*sub1
 Detector: IC 6240-0010901-006
 Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
 Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
 Limit Group: WET IC SH ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.634	2.617	0.017	10876201	0	
2 Chloride	3.617	3.617	0.0	191048685	0	
3 Nitrite as N	4.192	4.167	0.025	16604114	0.9723	
4 Bromide	5.117	5.083	0.034	13117129	0	
5 Nitrate as N	5.867	5.817	0.050	18731006	0.9412	
6 Orthophosphate	8.084	8.033	0.051	10324872	1.03	
7 Sulfate	9.775	9.708	0.067	118806517	0	

Report Date: 26-Jun-2012 08:59:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\6240-0010901-006.d

Injection Date: 22-Jun-2012 17:50:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

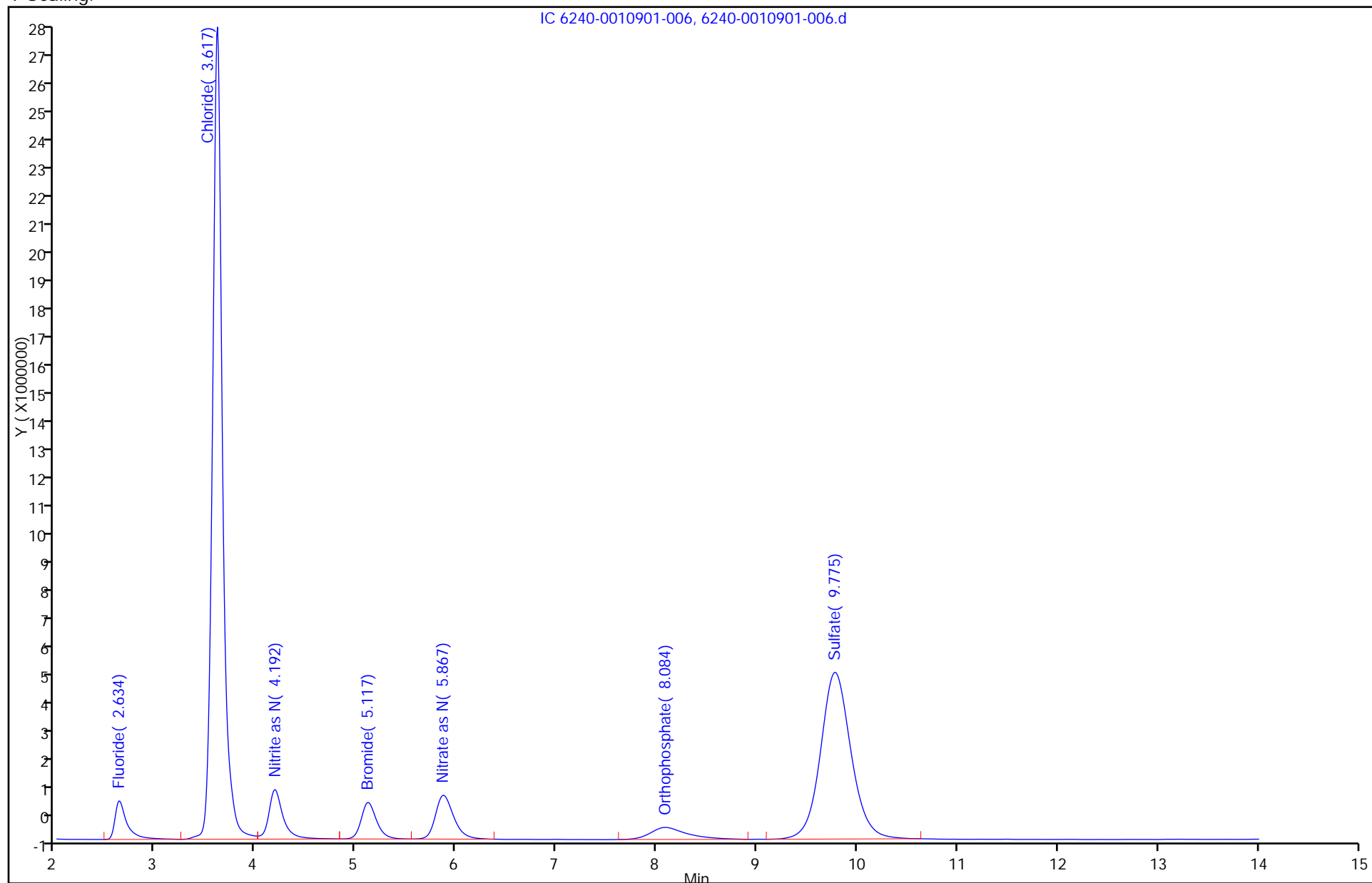
Lims Batch ID: 48118

Lims Sample ID: 6

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\7240-0010901-007.d
Lims ID: STD5 Client ID:
Inject. Date: 22-Jun-2012 18:06:00 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 5
Sample ID: 240-0010901-007
Misc. Info.: 7 STD5
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48117 Lims Sample ID: 7
Sublist: chrom-300_Simon*sub1
Detector: IC 7240-0010901-007
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.617	2.617	0.0	27677702	2.51	
2 Chloride	3.617	3.617	0.0	540328312	51.0	
3 Nitrite as N	4.167	4.167	0.0	42135904	0	
4 Bromide	5.083	5.083	0.0	33708214	9.93	
5 Nitrate as N	5.817	5.817	0.0	48741861	0	
6 Orthophosphate	8.033	8.033	0.0	23465093	0	
7 Sulfate	9.708	9.708	0.0	328004482	49.7	

Report Date: 26-Jun-2012 08:59:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\7240-0010901-007.d

Injection Date: 22-Jun-2012 18:06:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

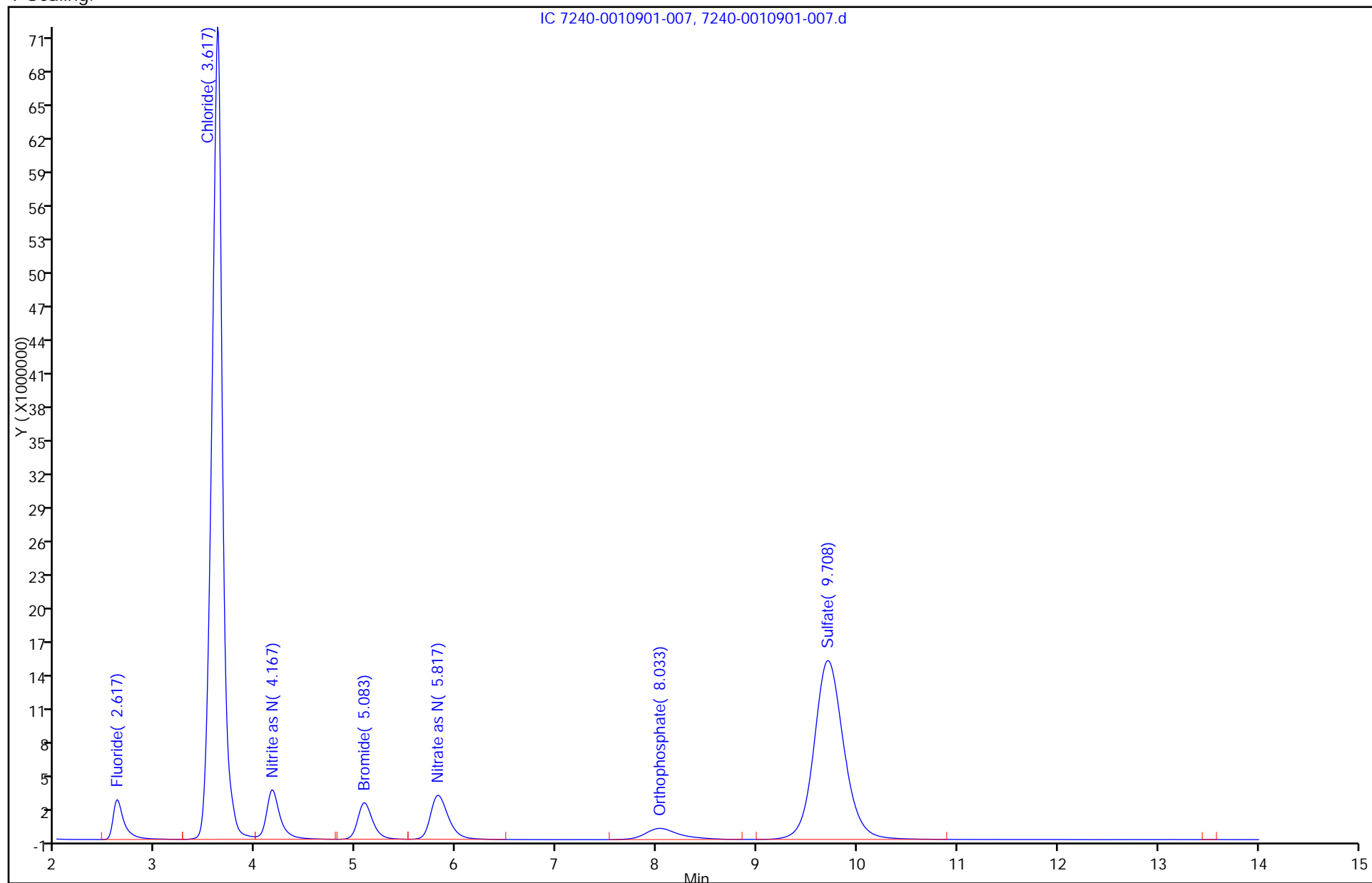
Lims Batch ID: 48117

Lims Sample ID: 7

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\7240-0010901-007.d
Lims ID: STD5 Client ID:
Inject. Date: 22-Jun-2012 18:06:00 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 5
Sample ID: 240-0010901-007
Misc. Info.: 7 STD5
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48118 Lims Sample ID: 7
Sublist: chrom-300_Simon*sub1
Detector: IC 7240-0010901-007
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.617	2.617	0.0	27677702	0	
2 Chloride	3.617	3.617	0.0	540328312	0	
3 Nitrite as N	4.167	4.167	0.0	42135904	2.47	
4 Bromide	5.083	5.083	0.0	33708214	0	
5 Nitrate as N	5.817	5.817	0.0	48741861	2.45	
6 Orthophosphate	8.033	8.033	0.0	23465093	2.34	
7 Sulfate	9.708	9.708	0.0	328004482	0	

Report Date: 26-Jun-2012 08:59:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\7240-0010901-007.d

Injection Date: 22-Jun-2012 18:06:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

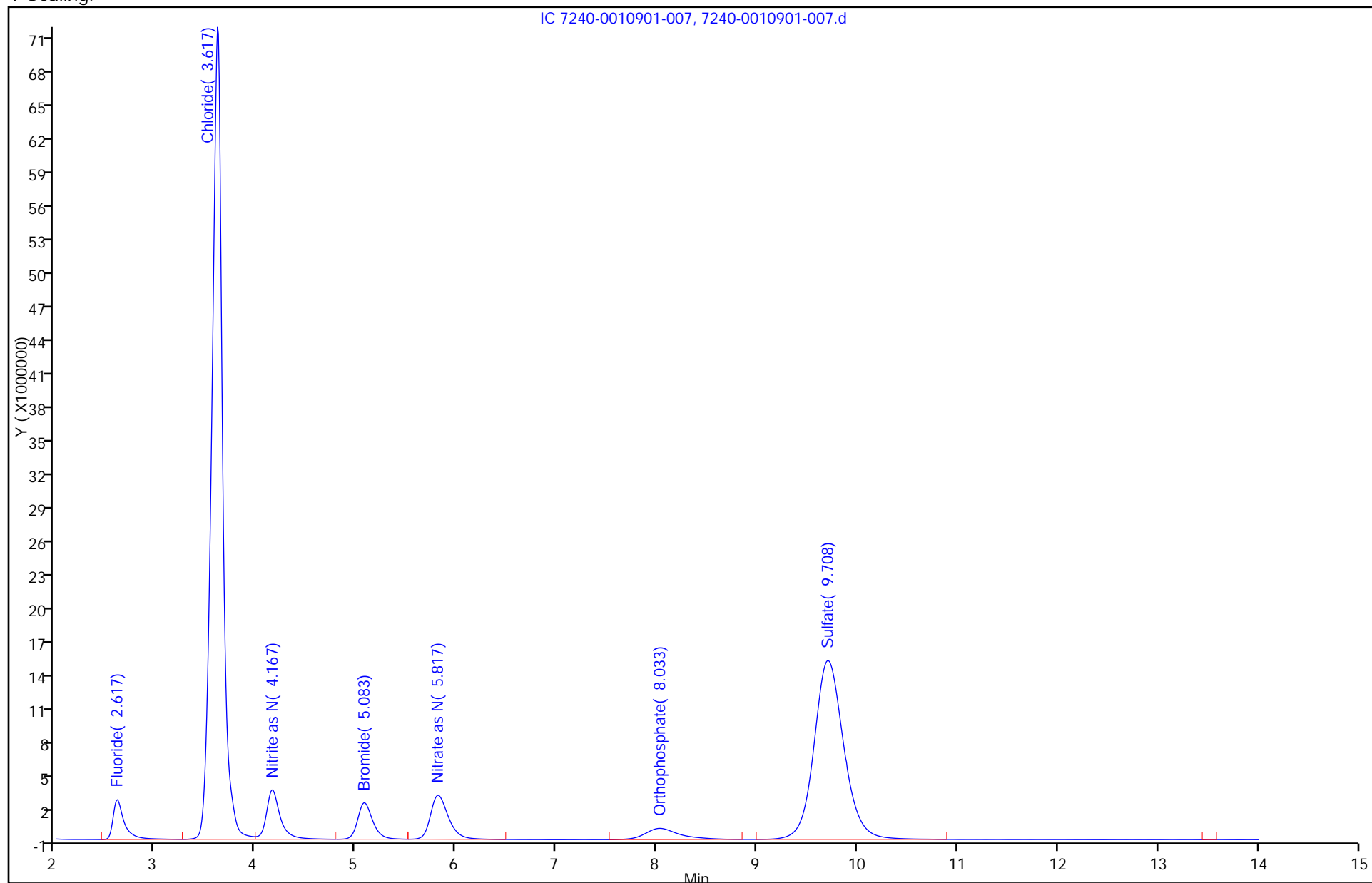
Lims Batch ID: 48118

Lims Sample ID: 7

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\8240-0010901-008.d
Lims ID: STD6 Client ID:
Inject. Date: 22-Jun-2012 18:23:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0010901-008
Misc. Info.: 8 STD6
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48117 Lims Sample ID: 8
Sublist: chrom-300_Simon*sub1
Detector: IC 8240-0010901-008
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.625	2.617	0.008	45953889	4.16	
2 Chloride	3.667	3.617	0.050	911139654	86.0	
3 Nitrite as N	4.183	4.167	0.016	69327136	0	
4 Bromide	5.100	5.083	0.017	55467156	16.3	
5 Nitrate as N	5.825	5.817	0.008	80534824	0	
6 Orthophosphate	8.050	8.033	0.017	36951882	0	
7 Sulfate	9.717	9.708	0.009	561848148	85.2	

Report Date: 26-Jun-2012 08:59:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\8240-0010901-008.d

Injection Date: 22-Jun-2012 18:23:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

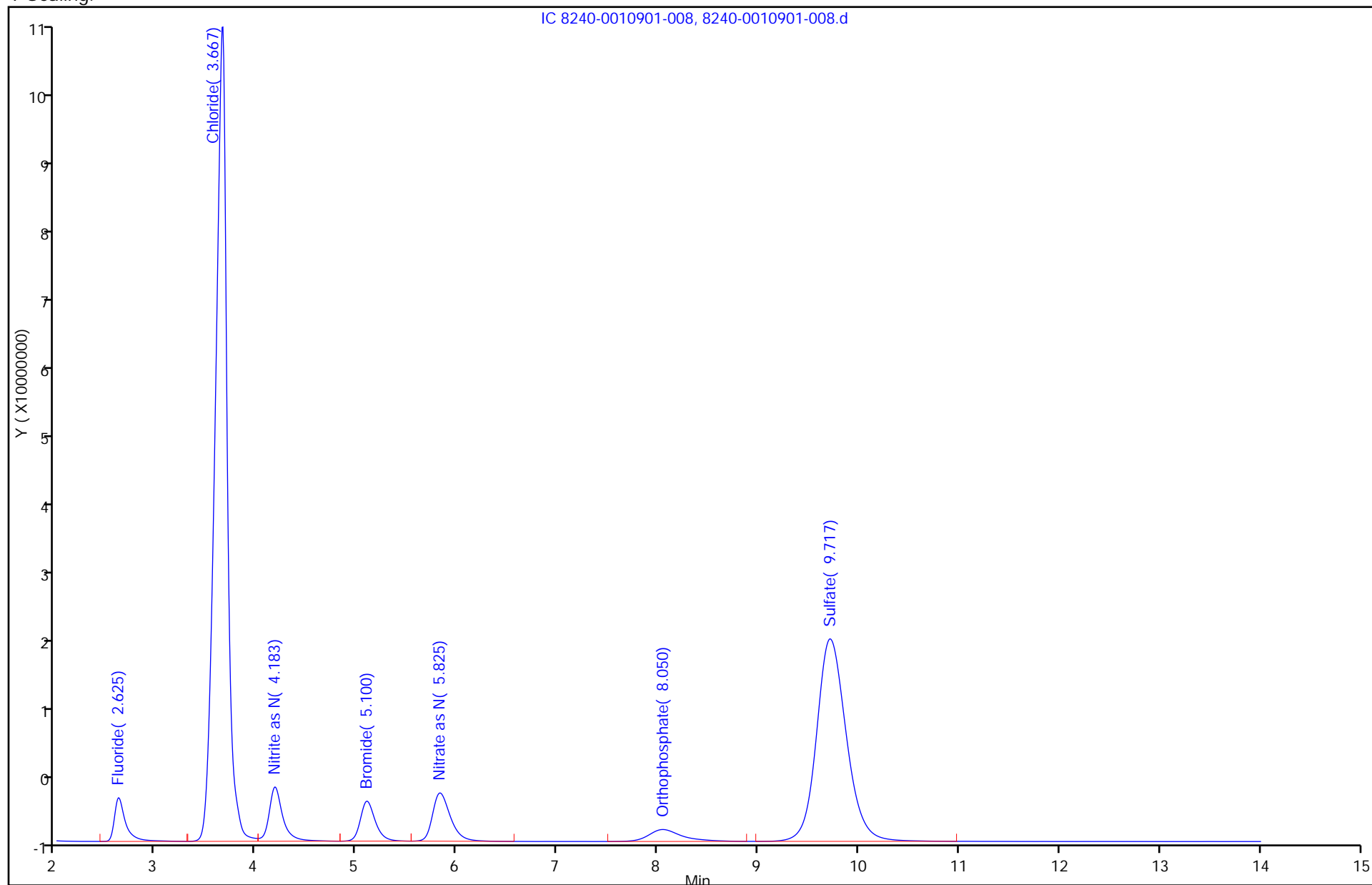
Lims Batch ID: 48117

Lims Sample ID: 8

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\8240-0010901-008.d
Lims ID: STD6 Client ID:
Inject. Date: 22-Jun-2012 18:23:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0010901-008
Misc. Info.: 8 STD6
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48118 Lims Sample ID: 8
Sublist: chrom-300_Simon*sub1
Detector: IC 8240-0010901-008
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.625	2.617	0.008	45953889	0	
2 Chloride	3.667	3.617	0.050	911139654	0	
3 Nitrite as N	4.183	4.167	0.016	69327136	4.06	
4 Bromide	5.100	5.083	0.017	55467156	0	
5 Nitrate as N	5.825	5.817	0.008	80534824	4.05	
6 Orthophosphate	8.050	8.033	0.017	36951882	3.69	
7 Sulfate	9.717	9.708	0.009	561848148	0	

Report Date: 26-Jun-2012 08:59:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\8240-0010901-008.d

Injection Date: 22-Jun-2012 18:23:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

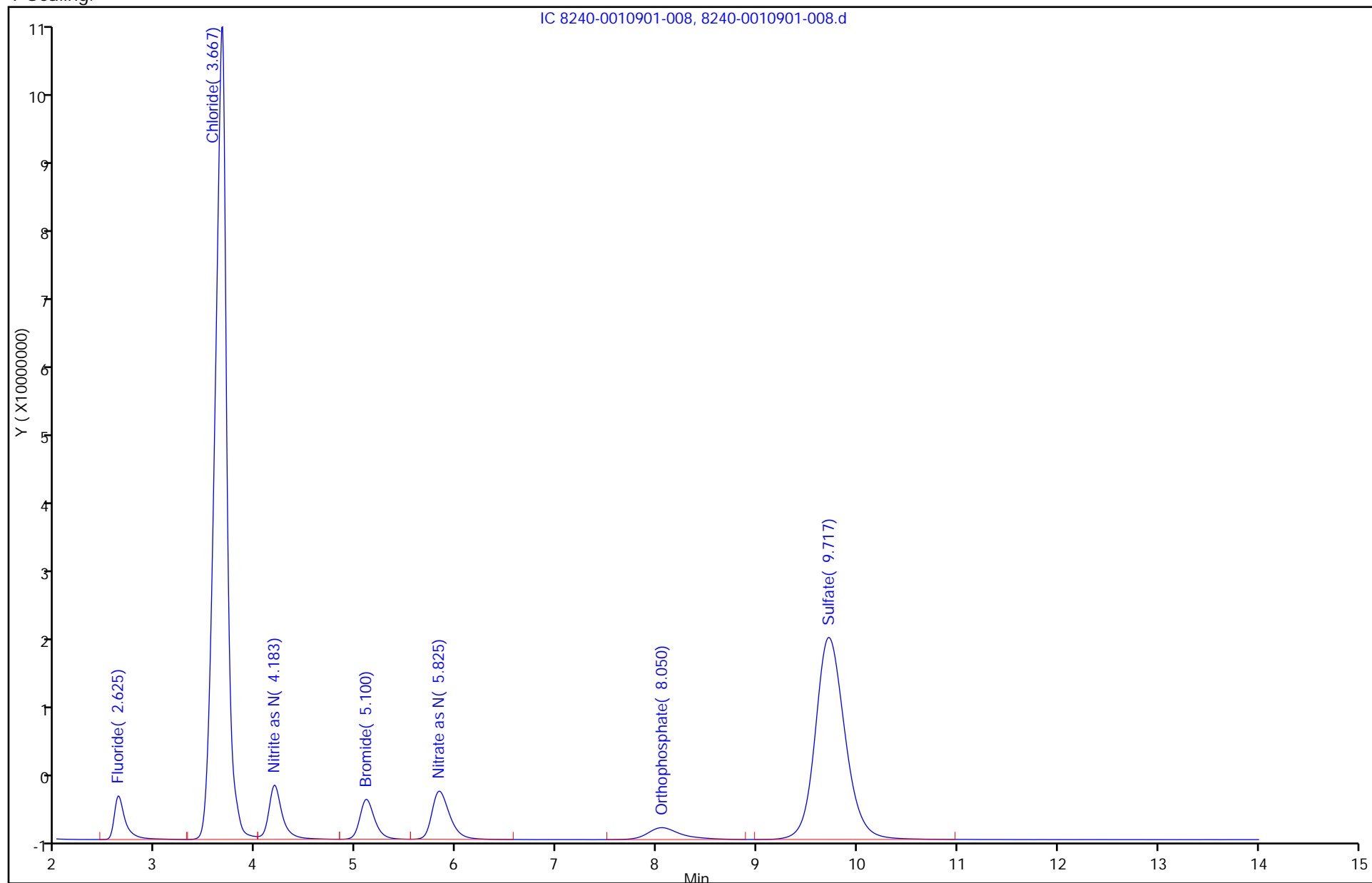
Lims Batch ID: 48118

Lims Sample ID: 8

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\9240-0010901-009.d
Lims ID: STD7 Client ID:
Inject. Date: 22-Jun-2012 18:39:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: 240-0010901-009
Misc. Info.: 9 STD7
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48117 Lims Sample ID: 9
Sublist: chrom-300_Simon*sub1
Detector: IC 9240-0010901-009
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.608	2.617	-0.009	57814127	5.24	
2 Chloride	3.650	3.617	0.033	1157554058	109.3	
3 Nitrite as N	4.158	4.167	-0.009	87729024	0	
4 Bromide	5.067	5.083	-0.016	70401793	20.7	
5 Nitrate as N	5.783	5.817	-0.034	102489961	0	
6 Orthophosphate	8.000	8.033	-0.033	46035745	0	
7 Sulfate	9.658	9.708	-0.050	725343380	110.0	

Report Date: 26-Jun-2012 08:59:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\9240-0010901-009.d

Injection Date: 22-Jun-2012 18:39:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

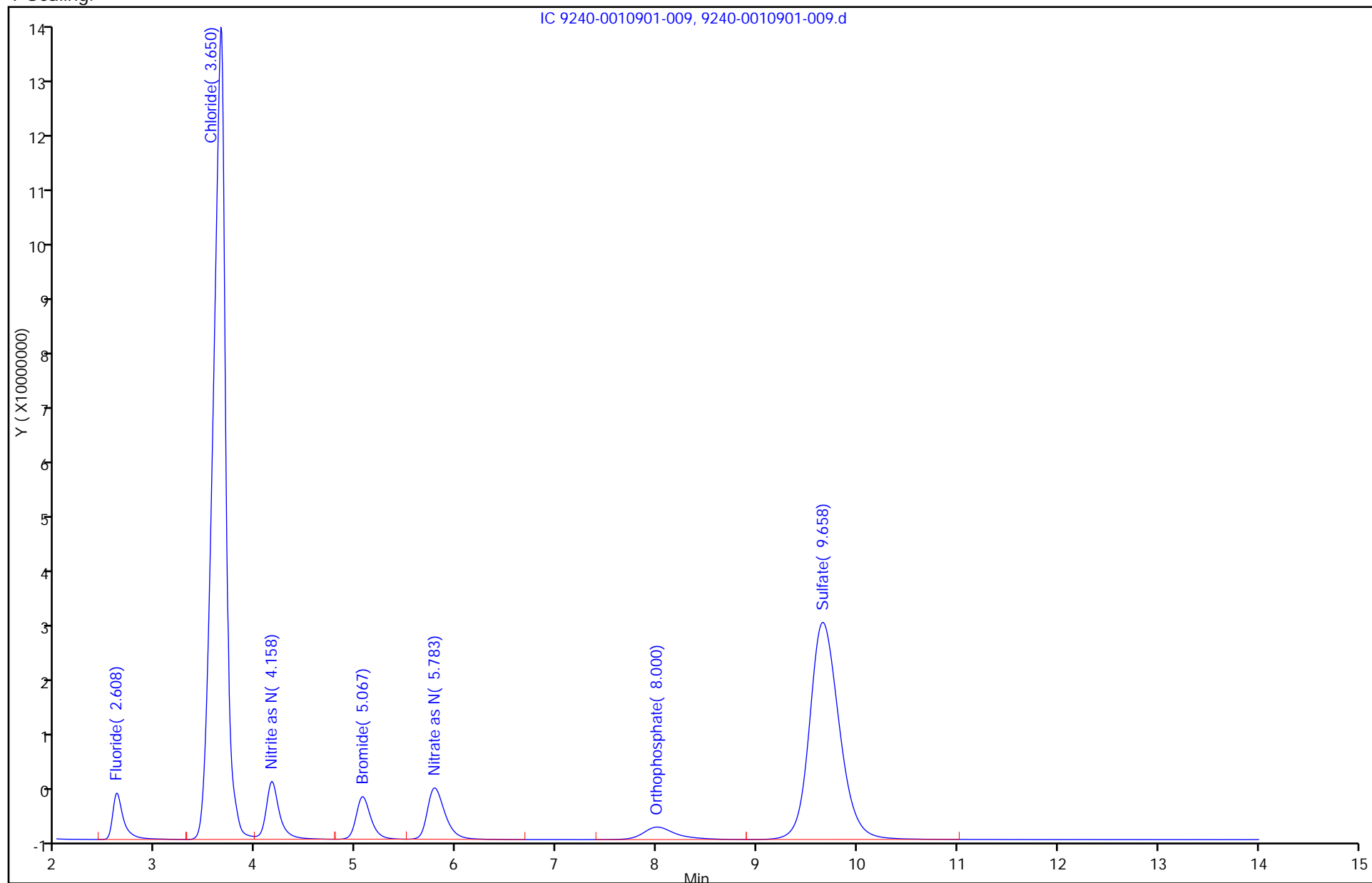
Lims Batch ID: 48117

Lims Sample ID: 9

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\9240-0010901-009.d
Lims ID: STD7 Client ID:
Inject. Date: 22-Jun-2012 18:39:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: 240-0010901-009
Misc. Info.: 9 STD7
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48118 Lims Sample ID: 9
Sublist: chrom-300_Simon*sub1
Detector: IC 9240-0010901-009
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.608	2.617	-0.009	57814127	0	
2 Chloride	3.650	3.617	0.033	1157554058	0	
3 Nitrite as N	4.158	4.167	-0.009	87729024	5.14	
4 Bromide	5.067	5.083	-0.016	70401793	0	
5 Nitrate as N	5.783	5.817	-0.034	102489961	5.15	
6 Orthophosphate	8.000	8.033	-0.033	46035745	4.60	
7 Sulfate	9.658	9.708	-0.050	725343380	0	

Report Date: 26-Jun-2012 08:59:39

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\9240-0010901-009.d

Injection Date: 22-Jun-2012 18:39:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

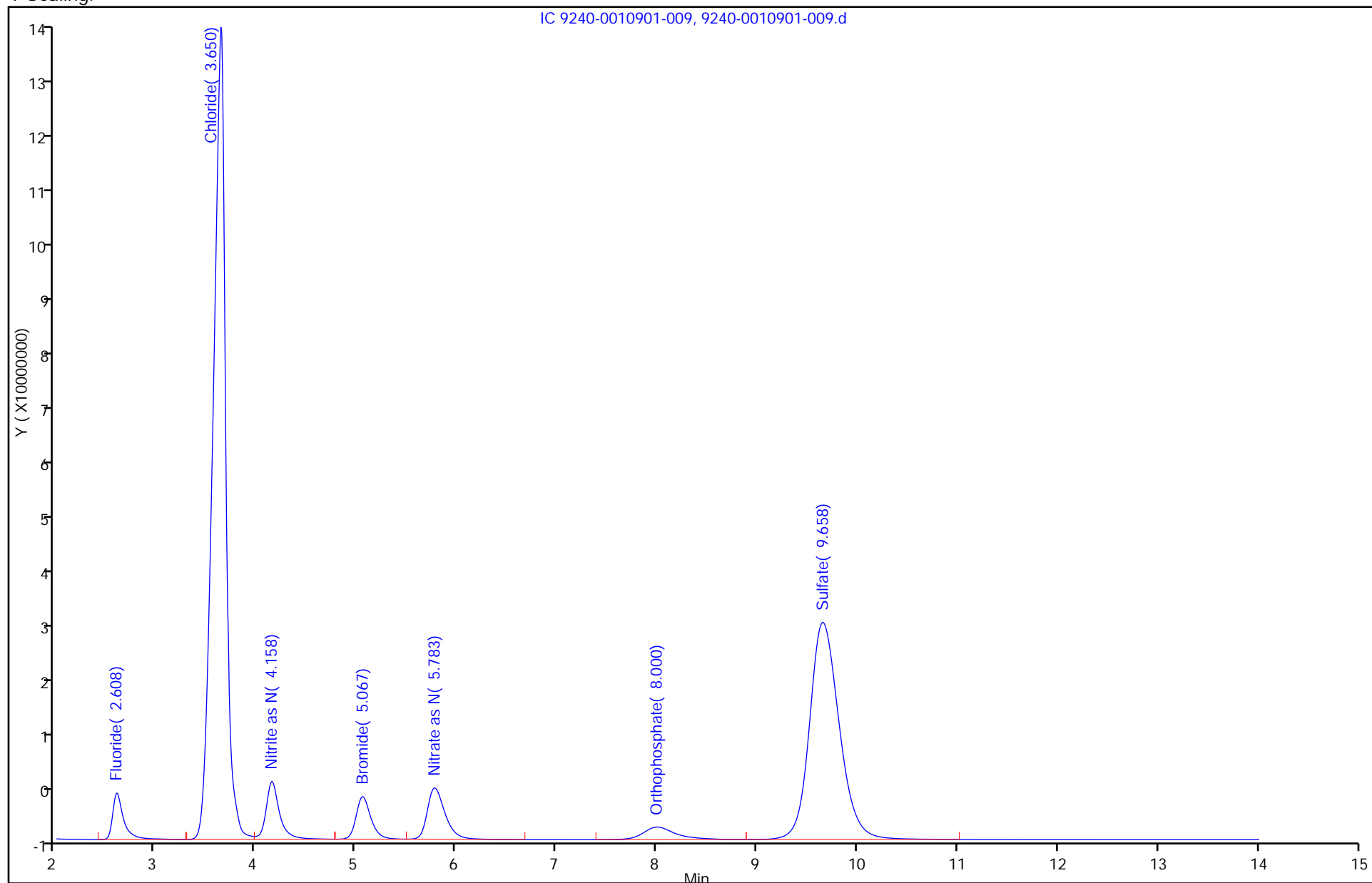
Lims Batch ID: 48118

Lims Sample ID: 9

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\10240-0010901-010.d
Lims ID: STD8 Client ID:
Inject. Date: 22-Jun-2012 18:56:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: 240-0010901-010
Misc. Info.: 10 STD8
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48117 Lims Sample ID: 10
Sublist: chrom-300_Simon*sub1
Detector: IC 10240-0010901-010
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.633	2.617	0.016	90868638	8.23	
2 Chloride	3.717	3.617	0.100	1797916284	169.8	
3 Nitrite as N	4.200	4.167	0.033	136304995	0	
4 Bromide	5.100	5.083	0.017	110038197	32.4	
5 Nitrate as N	5.808	5.817	-0.009	161112338	0	
6 Orthophosphate	8.033	8.033	0.0	68239980	0	
7 Sulfate	9.658	9.708	-0.050	1153722990	174.9	

Report Date: 26-Jun-2012 08:59:40

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\10240-0010901-010.d

Injection Date: 22-Jun-2012 18:56:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

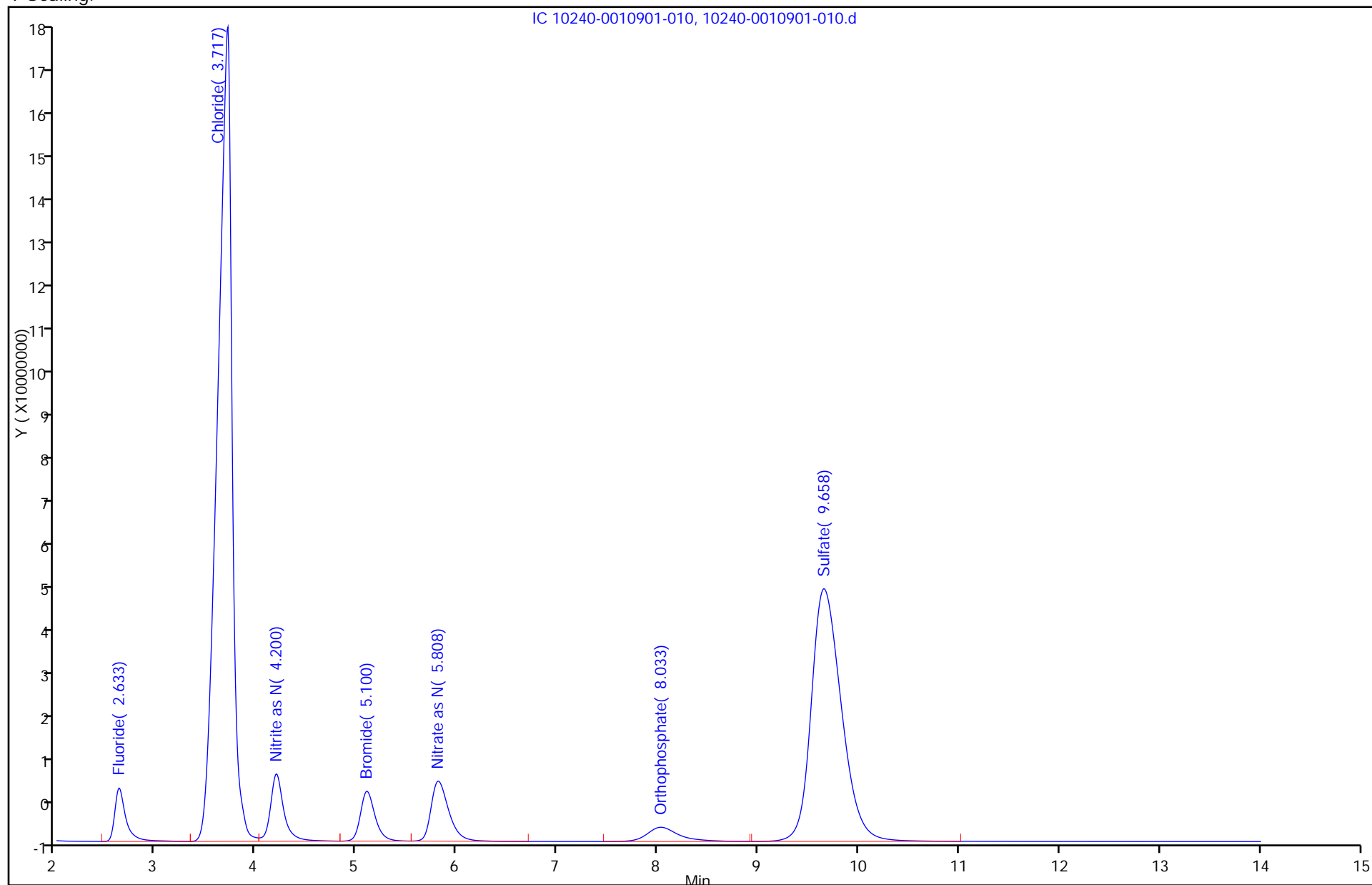
Lims Batch ID: 48117

Lims Sample ID: 10

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\10240-0010901-010.d
Lims ID: STD8 Client ID:
Inject. Date: 22-Jun-2012 18:56:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: 240-0010901-010
Misc. Info.: 10 STD8
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48118 Lims Sample ID: 10
Sublist: chrom-300_Simon*sub1
Detector: IC 10240-0010901-010
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:39 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.633	2.617	0.016	90868638	0	
2 Chloride	3.717	3.617	0.100	1797916284	0	
3 Nitrite as N	4.200	4.167	0.033	136304995	7.98	
4 Bromide	5.100	5.083	0.017	110038197	0	
5 Nitrate as N	5.808	5.817	-0.009	161112338	8.10	
6 Orthophosphate	8.033	8.033	0.0	68239980	6.82	
7 Sulfate	9.658	9.708	-0.050	1153722990	0	

Report Date: 26-Jun-2012 08:59:40

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\10240-0010901-010.d

Injection Date: 22-Jun-2012 18:56:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

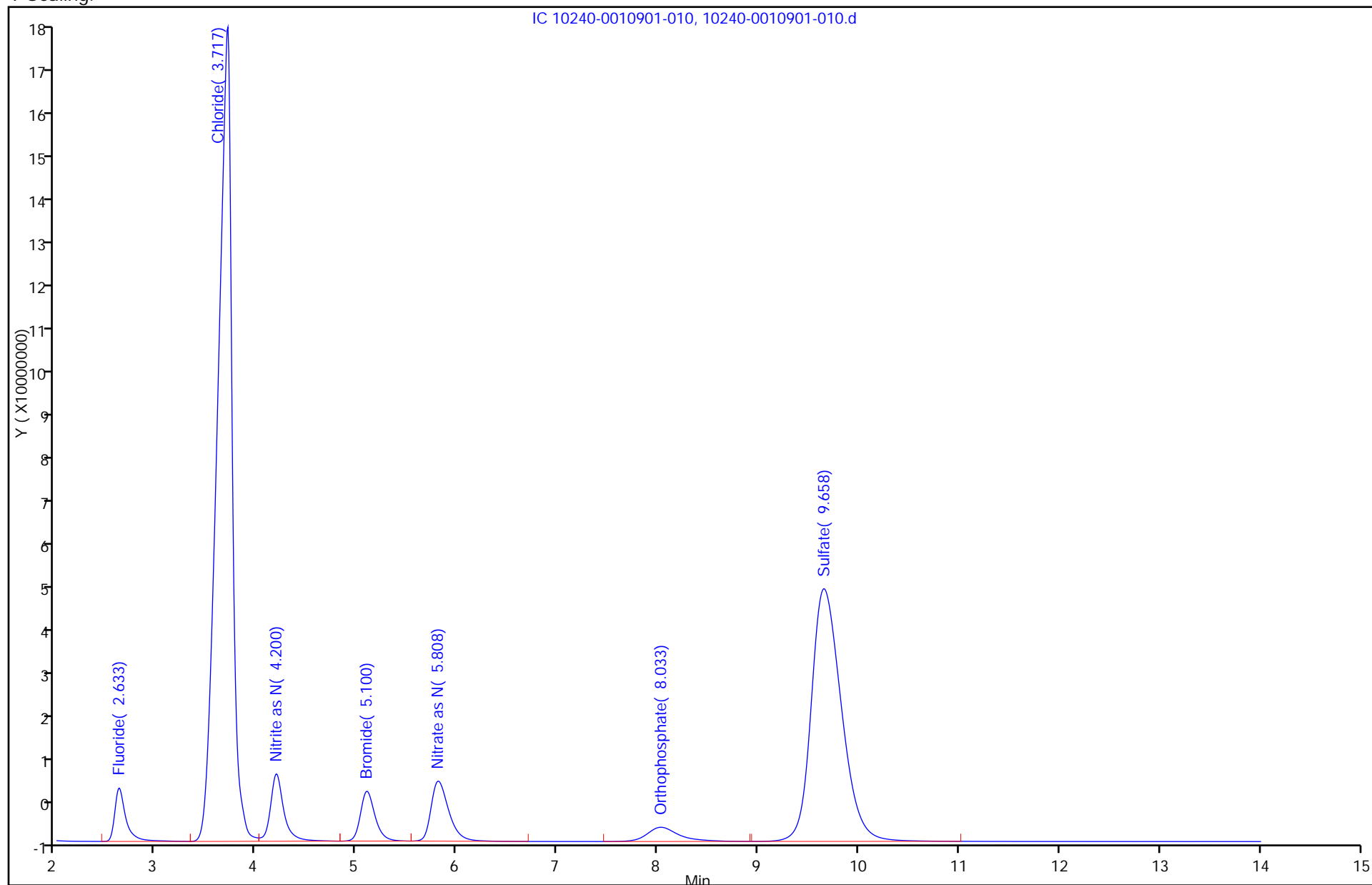
Lims Batch ID: 48118

Lims Sample ID: 10

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Lims ID: STD9 Client ID:
Inject. Date: 22-Jun-2012 19:12:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: 240-0010901-011
Misc. Info.: 11 STD9
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48117 Lims Sample ID: 11
Sublist: chrom-300_Simon*sub1
Detector: IC 11240-0010901-011
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:40 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.642	2.617	0.025	123649775	11.2	
2 Chloride	3.742	3.617	0.125	2437810303	230.2	
3 Nitrite as N	4.209	4.167	0.042	185564293	0	
4 Bromide	5.092	5.083	0.009	151195908	44.5	
5 Nitrate as N	5.784	5.817	-0.033	221053217	0	
6 Orthophosphate	8.000	8.033	-0.033	90187906	0	
7 Sulfate	9.584	9.708	-0.124	1595232000	241.8	

Report Date: 26-Jun-2012 08:59:40

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d

Injection Date: 22-Jun-2012 19:12:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

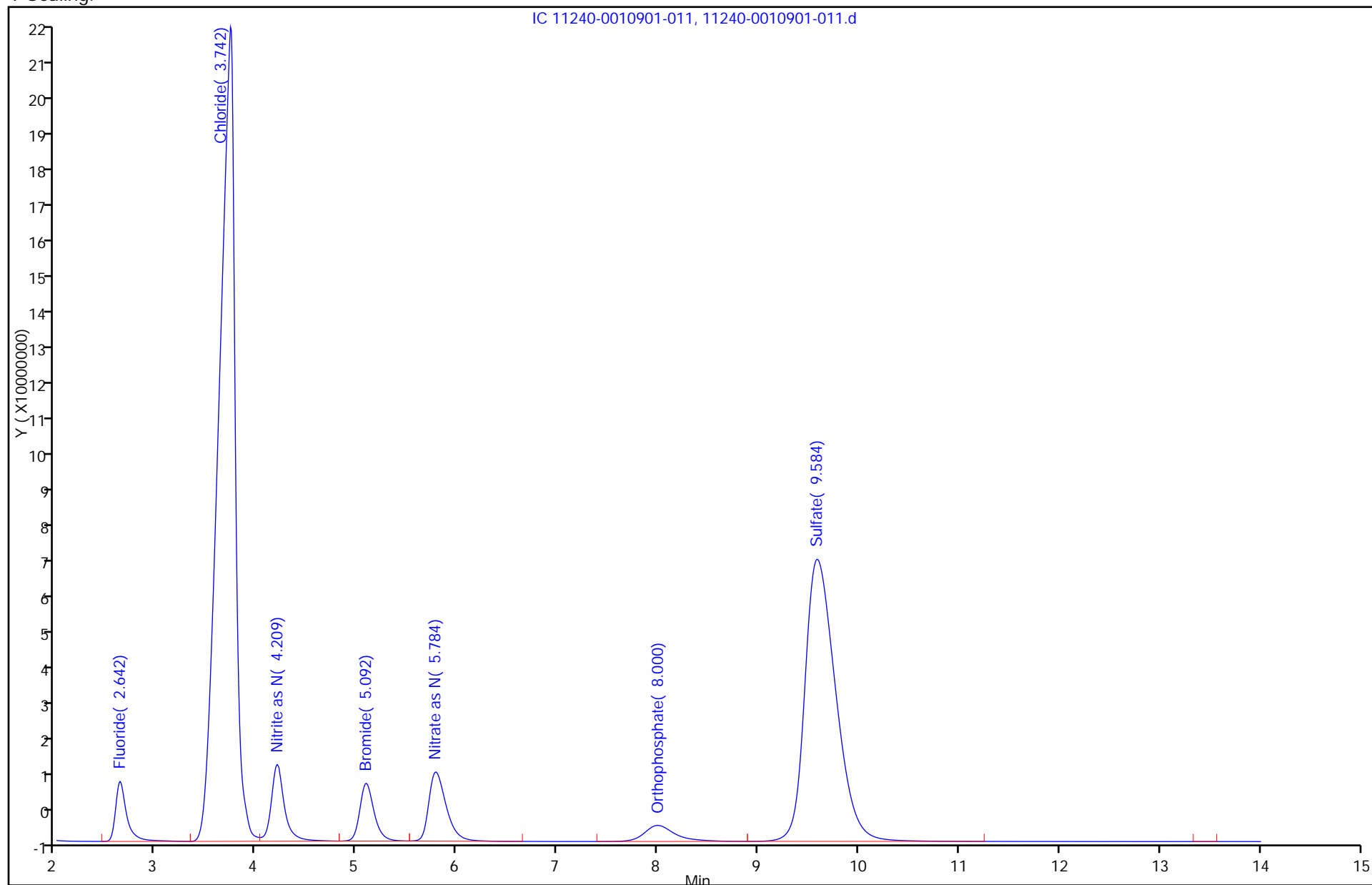
Lims Batch ID: 48117

Lims Sample ID: 11

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Lims ID: STD9 Client ID:
Inject. Date: 22-Jun-2012 19:12:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: 240-0010901-011
Misc. Info.: 11 STD9
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48118 Lims Sample ID: 11
Sublist: chrom-300_Simon*sub1
Detector: IC 11240-0010901-011
Method: \\Ncchrom\ChromData\SIMON\20120620-10901.b\300_Simon.m
Last Update: 26-Jun-2012 08:59:40 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.642	2.617	0.025	123649775	0	
2 Chloride	3.742	3.617	0.125	2437810303	0	
3 Nitrite as N	4.209	4.167	0.042	185564293	10.9	
4 Bromide	5.092	5.083	0.009	151195908	0	
5 Nitrate as N	5.784	5.817	-0.033	221053217	11.1	
6 Orthophosphate	8.000	8.033	-0.033	90187906	9.01	
7 Sulfate	9.584	9.708	-0.124	1595232000	0	

Report Date: 26-Jun-2012 08:59:40

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d

Injection Date: 22-Jun-2012 19:12:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

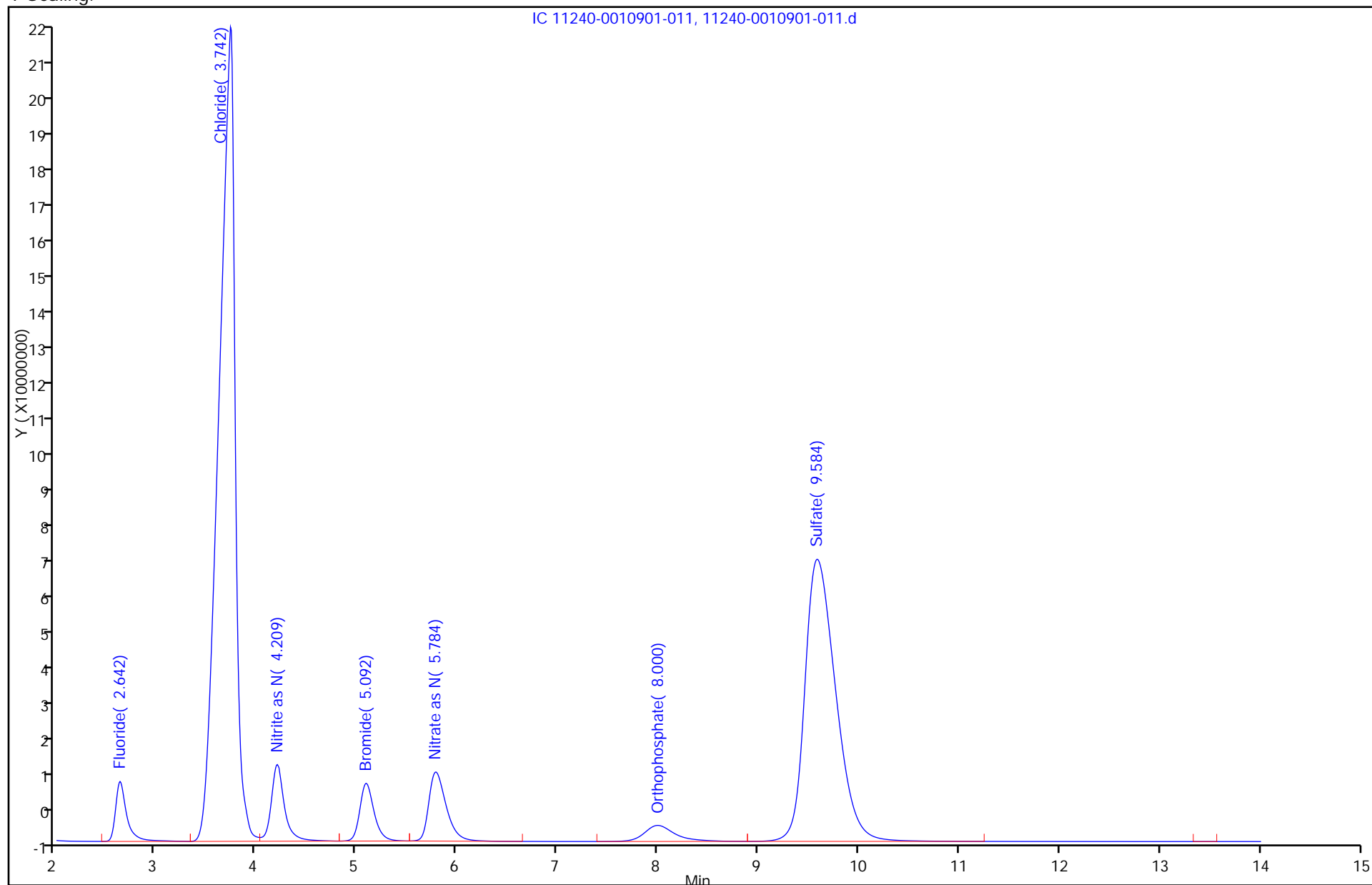
Lims Batch ID: 48118

Lims Sample ID: 11

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\3240-0011059-003.d
Lims ID: CCV Client ID:
Inject. Date: 25-Jun-2012 11:30:00 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0011059-003
Misc. Info.: 3 CCV
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 3
Detector: IC 3240-0011059-003
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.583	2.583	0.0	27086535	2.45	
2 Chloride	3.558	3.558	0.0	516909020	48.8	
3 Nitrite as N	4.108	4.108	0.0	40637037	0	
4 Bromide	5.033	5.033	0.0	32628059	9.61	
5 Nitrate as N	5.767	5.767	0.0	46908112	0	
6 Orthophosphate	7.858	7.858	0.0	21095657	0	
7 Sulfate	9.500	9.500	0.0	315213767	47.8	

Report Date: 26-Jun-2012 10:07:30

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\3240-0011059-003.d

Injection Date: 25-Jun-2012 11:30:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

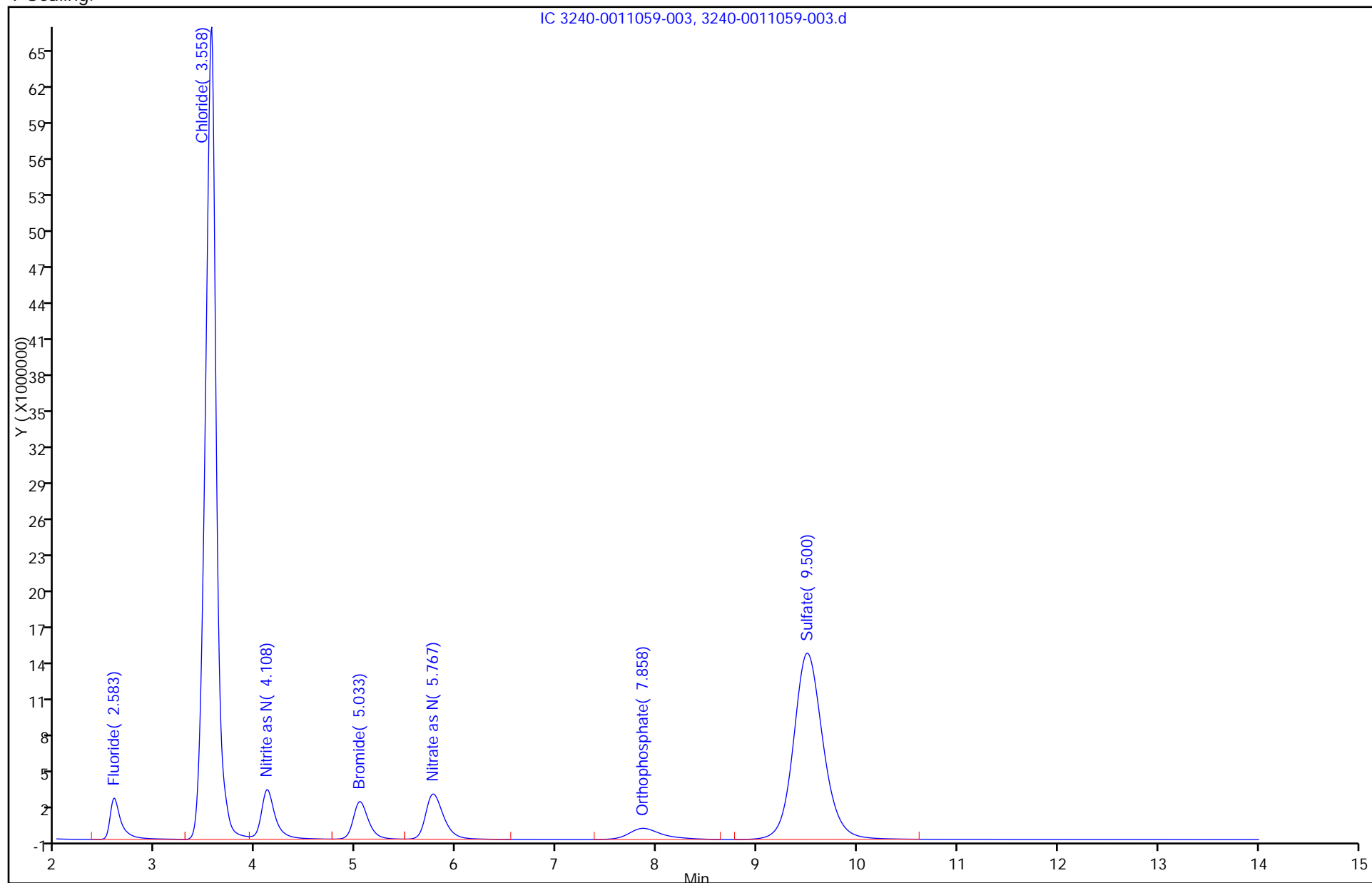
Lims Batch ID: 48696

Lims Sample ID: 3

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\3240-0011059-003.d
Lims ID: CCV Client ID:
Inject. Date: 25-Jun-2012 11:30:00 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0011059-003
Misc. Info.: 3 CCV
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 3
Detector: IC 3240-0011059-003
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.583	2.583	0.0	27086535	0	
2 Chloride	3.558	3.558	0.0	516909020	0	
3 Nitrite as N	4.108	4.108	0.0	40637037	2.38	
4 Bromide	5.033	5.033	0.0	32628059	0	
5 Nitrate as N	5.767	5.767	0.0	46908112	2.36	
6 Orthophosphate	7.858	7.858	0.0	21095657	2.11	
7 Sulfate	9.500	9.500	0.0	315213767	0	

Report Date: 26-Jun-2012 10:07:30

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\3240-0011059-003.d

Injection Date: 25-Jun-2012 11:30:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

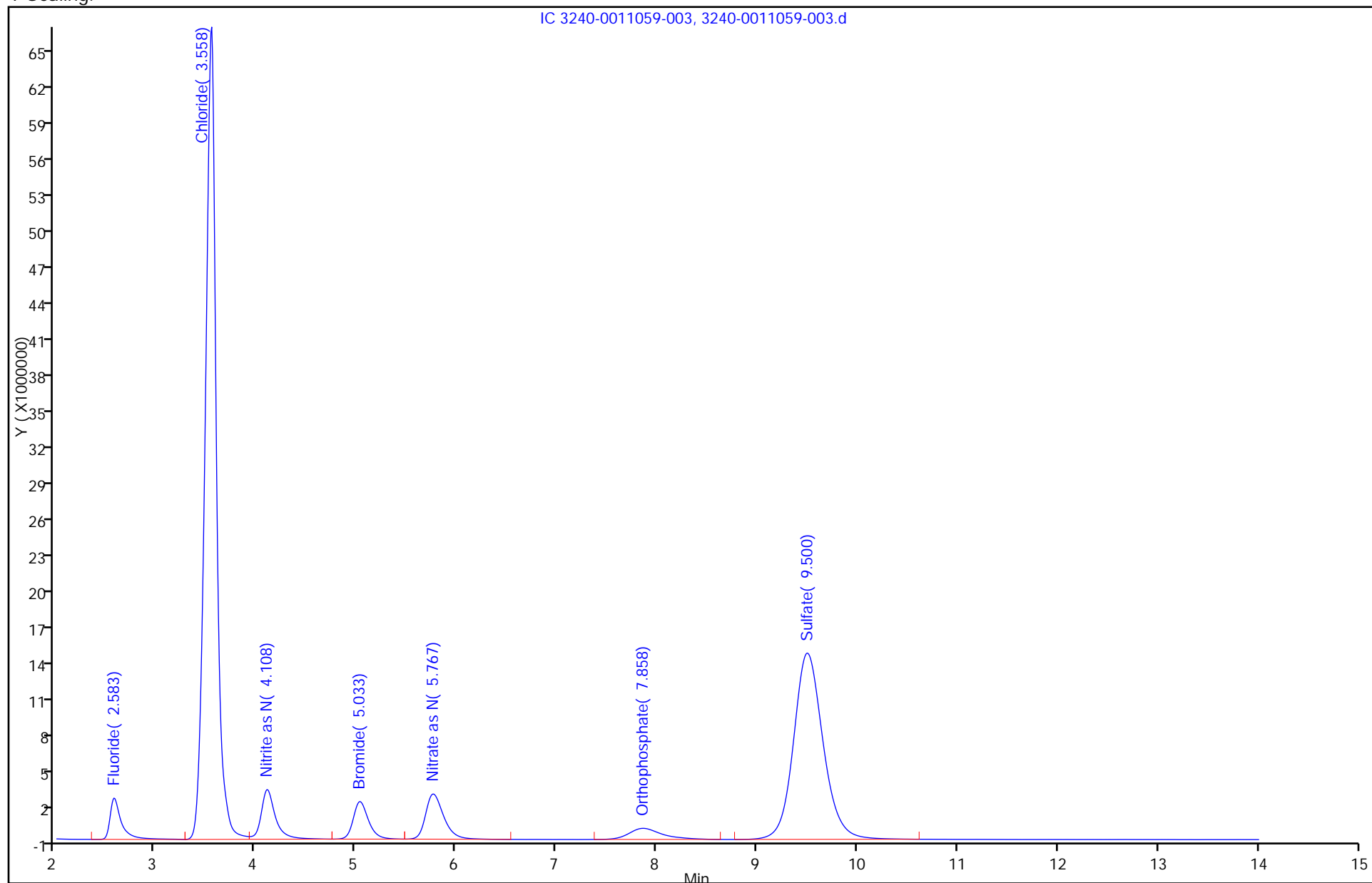
Lims Batch ID: 48697

Lims Sample ID: 3

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\4240-0011059-004.d
Lims ID: CCB Client ID:
Inject. Date: 25-Jun-2012 11:46:00 Dil. Factor: 1.0000
Sample Type: CCB
Sample ID: 240-0011059-004
Misc. Info.: 4 CCB
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 4
Detector: IC 4240-0011059-004
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:01:56

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.583				
2 Chloride		3.558				
3 Nitrite as N		4.108				1
4 Bromide		5.033				1
5 Nitrate as N		5.767				1
6 Orthophosphate	8.075	7.858	0.217	1269279	0	M
7 Sulfate		9.500				

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:31

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\4240-0011059-004.d

Injection Date: 25-Jun-2012 11:46:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

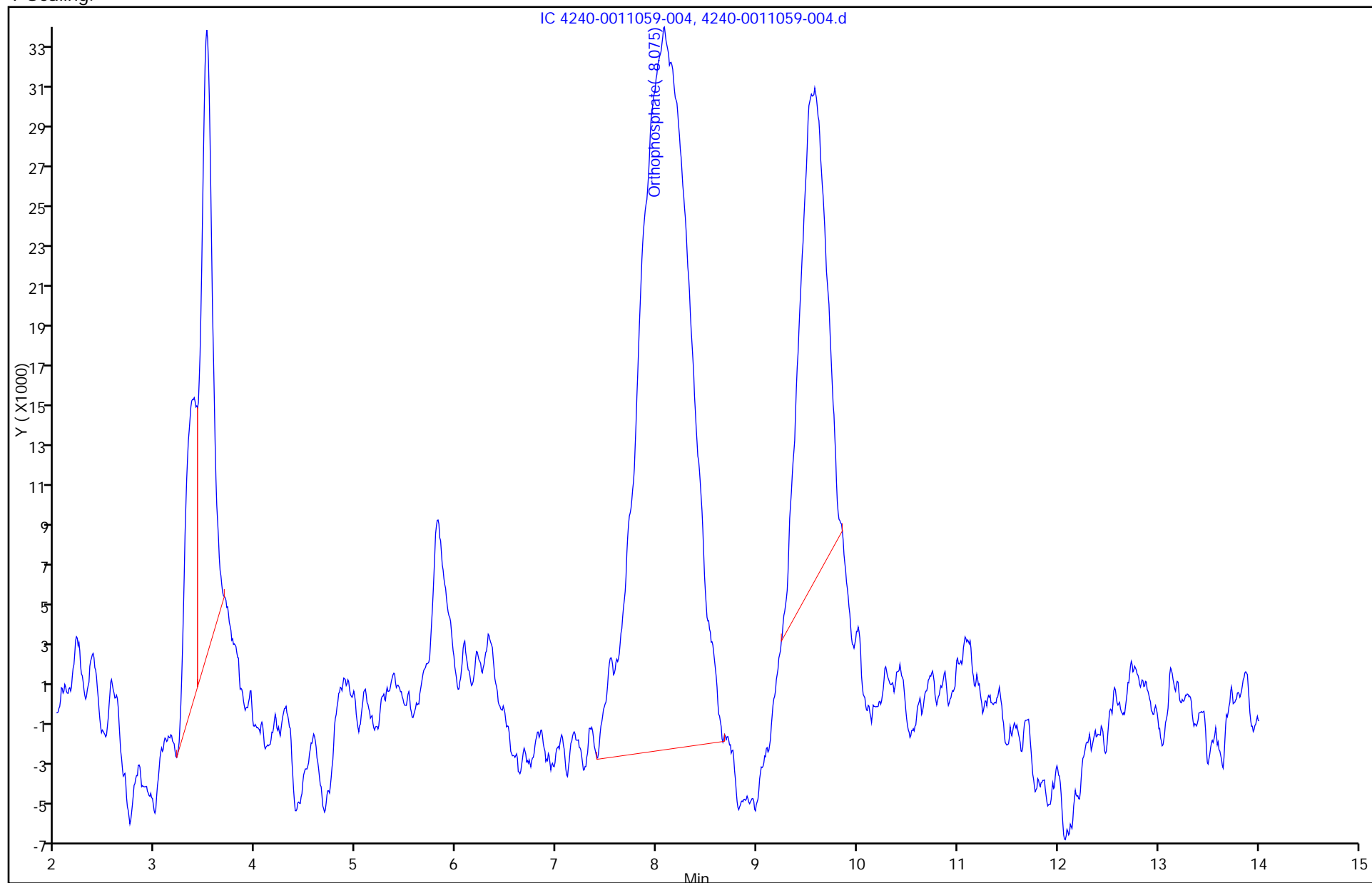
Lims Batch ID: 48696

Lims Sample ID: 4

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\4240-0011059-004.d
Lims ID: CCB Client ID:
Inject. Date: 25-Jun-2012 11:46:00 Dil. Factor: 1.0000
Sample Type: CCB
Sample ID: 240-0011059-004
Misc. Info.: 4 CCB
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 4
Detector: IC 4240-0011059-004
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:01:56

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.583				
2 Chloride		3.558				
3 Nitrite as N		4.108				1
4 Bromide		5.033				1
5 Nitrate as N		5.767				1
6 Orthophosphate	8.075	7.858	0.217	1269279	0.1268	M
7 Sulfate		9.500				

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:31

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120625-11059.b\4240-0011059-004.d

Injection Date: 25-Jun-2012 11:46:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

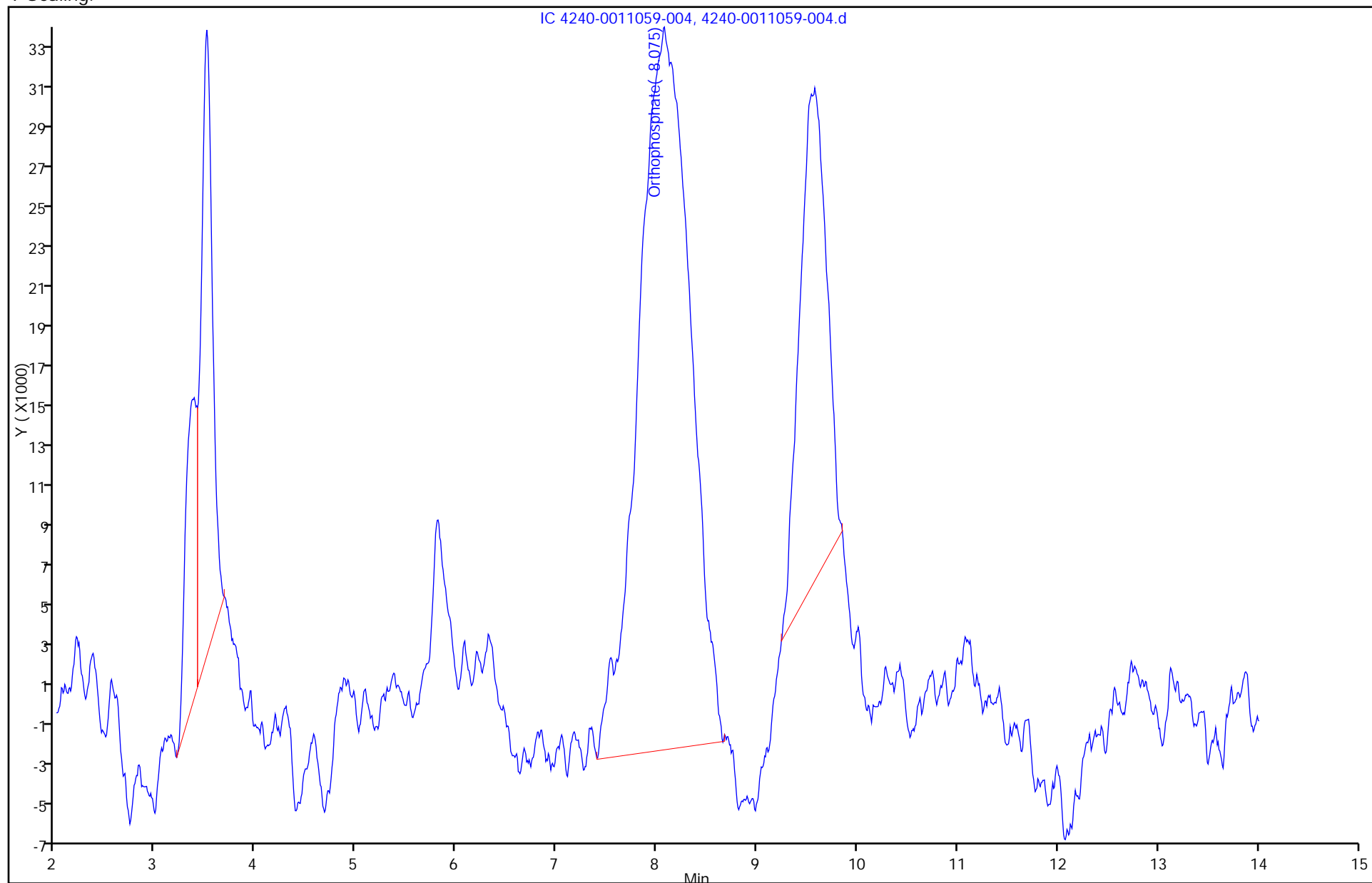
Lims Batch ID: 48697

Lims Sample ID: 4

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\5240-0011059-005.d
Lims ID: MB Client ID:
Inject. Date: 25-Jun-2012 12:02:00 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0011059-005
Misc. Info.: 5 MB
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 5
Detector: IC 5240-0011059-005
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.583				1
2 Chloride		3.558				
3 Nitrite as N		4.108				1
4 Bromide		5.033				1
5 Nitrate as N		5.767				1
6 Orthophosphate		7.858				1
7 Sulfate		9.500				1

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 26-Jun-2012 10:07:31

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\5240-0011059-005.d

Injection Date: 25-Jun-2012 12:02:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

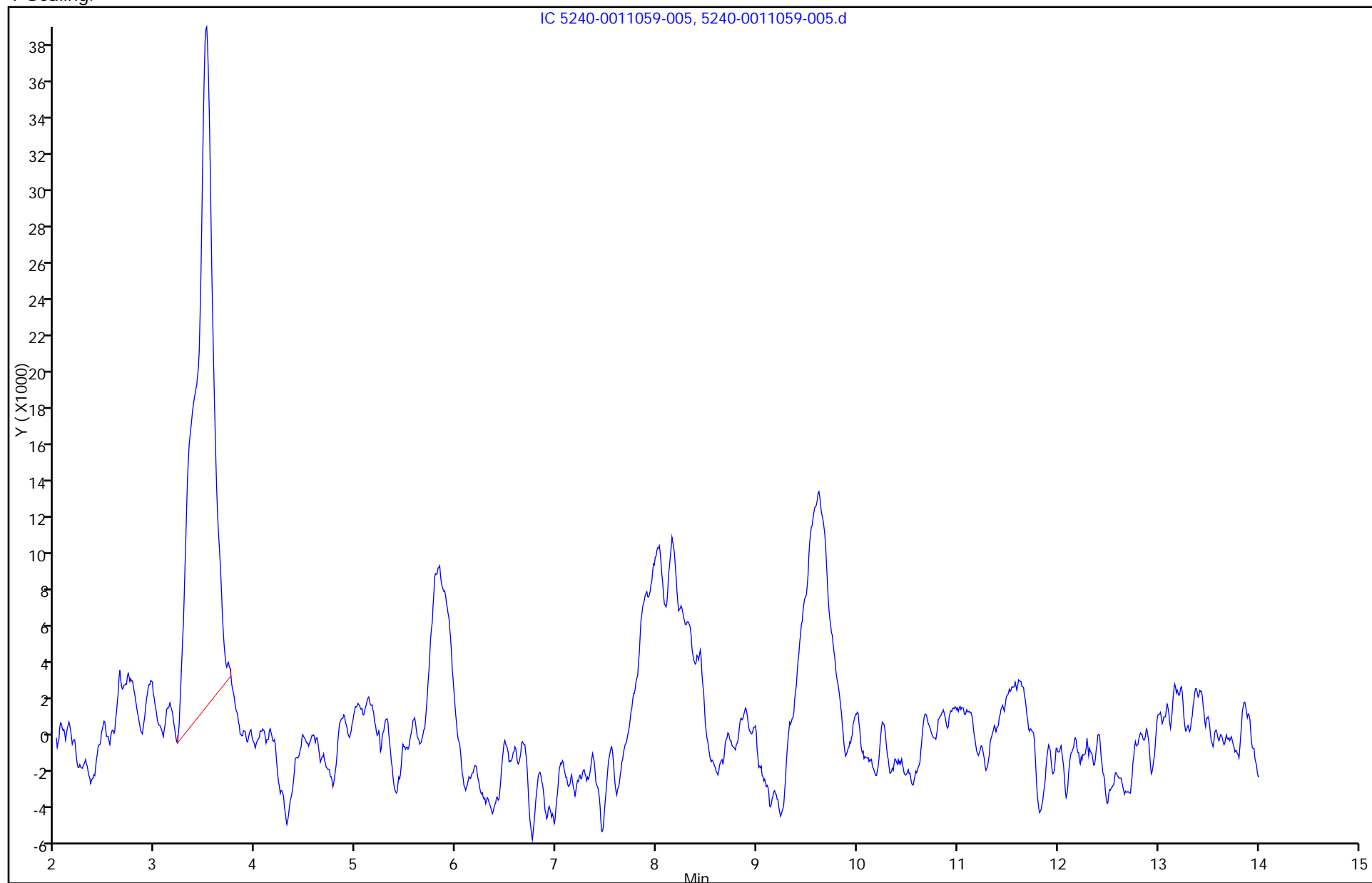
Lims Batch ID: 48696

Lims Sample ID: 5

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\5240-0011059-005.d
Lims ID: MB Client ID:
Inject. Date: 25-Jun-2012 12:02:00 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0011059-005
Misc. Info.: 5 MB
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 5
Detector: IC 5240-0011059-005
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.583				1
2 Chloride		3.558				
3 Nitrite as N		4.108				1
4 Bromide		5.033				1
5 Nitrate as N		5.767				1
6 Orthophosphate		7.858				1
7 Sulfate		9.500				1

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 26-Jun-2012 10:07:31

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\5240-0011059-005.d

Injection Date: 25-Jun-2012 12:02:00

Limit Group: WET IC SH ICAL

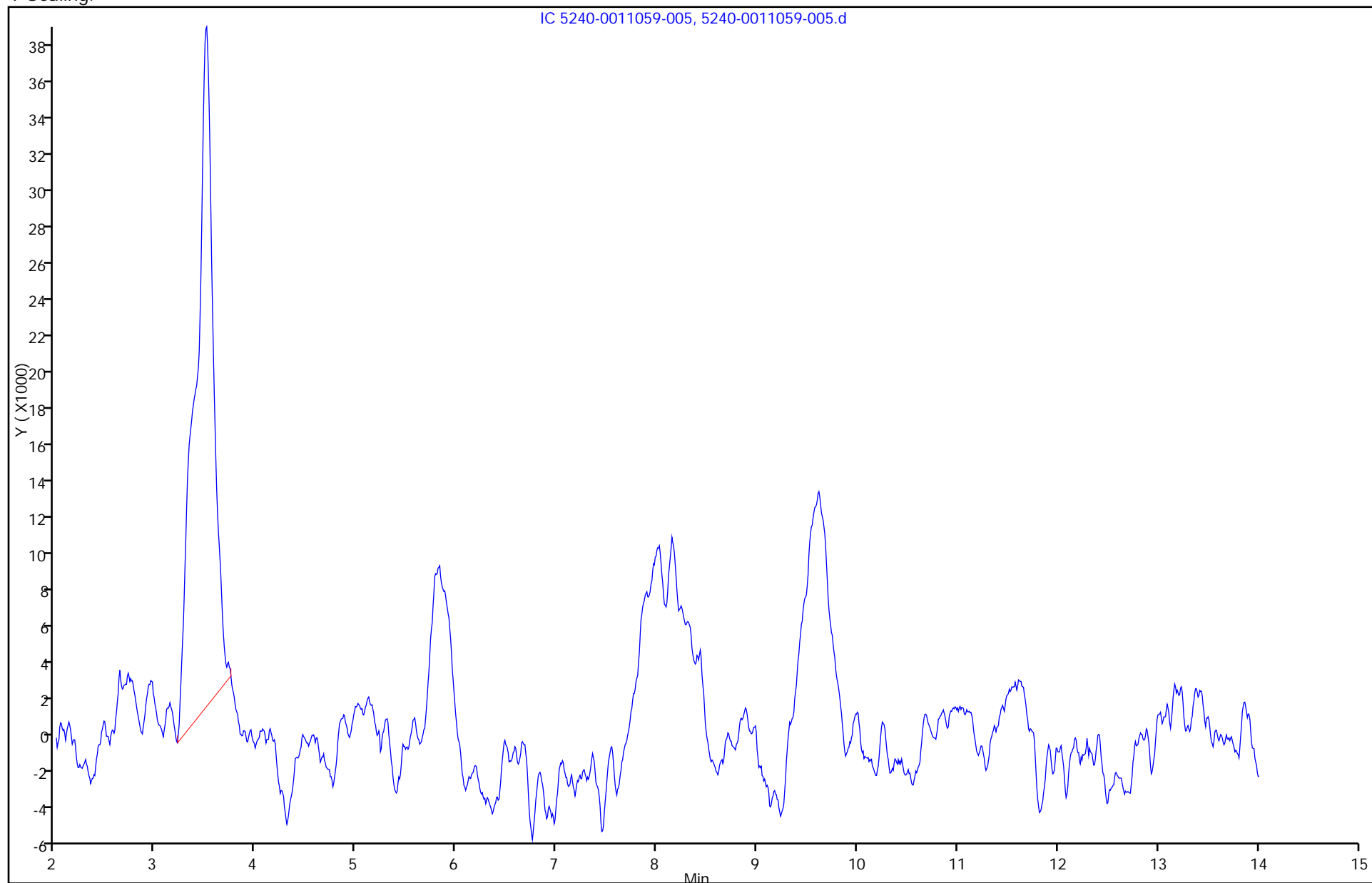
Client ID: SIMON

Lims Batch ID: 48697

Lims Sample ID: 5

Operator ID: Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\6240-0011059-006.d
Lims ID: LCS Client ID:
Inject. Date: 25-Jun-2012 12:19:00 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0011059-006
Misc. Info.: 6 LCS
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 6
Detector: IC 6240-0011059-006
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.583	2.583	0.0	27250743	2.47	
2 Chloride	3.558	3.558	0.0	517929606	48.9	
3 Nitrite as N	4.117	4.108	0.009	40707533	0	
4 Bromide	5.042	5.033	0.009	32438198	9.56	
5 Nitrate as N	5.775	5.767	0.008	45954217	0	
6 Orthophosphate	7.867	7.858	0.009	21964015	0	
7 Sulfate	9.508	9.500	0.008	314648049	47.7	

Report Date: 26-Jun-2012 10:07:31

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\6240-0011059-006.d

Injection Date: 25-Jun-2012 12:19:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

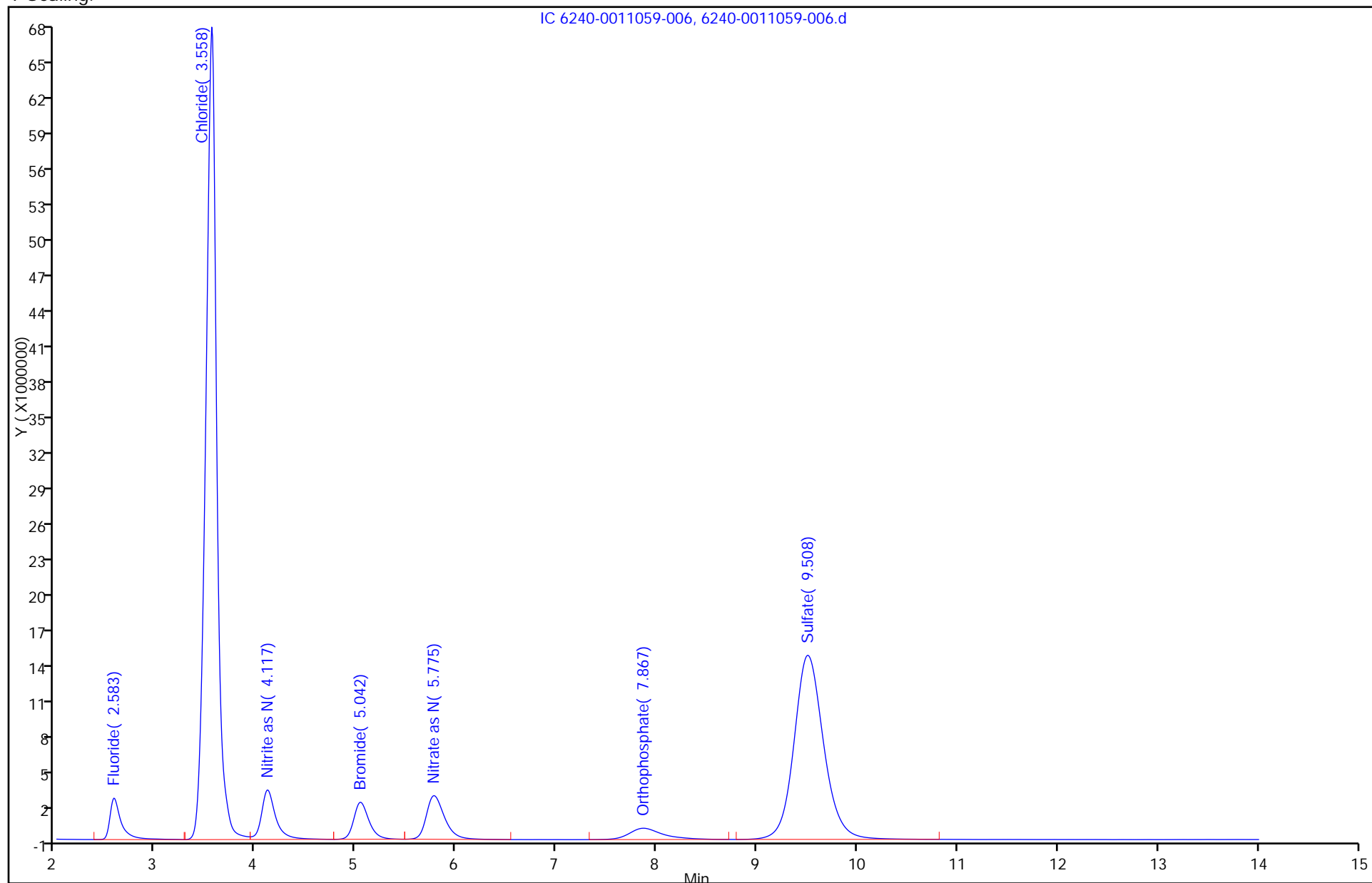
Lims Batch ID: 48696

Lims Sample ID: 6

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\6240-0011059-006.d
Lims ID: LCS Client ID:
Inject. Date: 25-Jun-2012 12:19:00 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0011059-006
Misc. Info.: 6 LCS
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 6
Detector: IC 6240-0011059-006
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.583	2.583	0.0	27250743	0	
2 Chloride	3.558	3.558	0.0	517929606	0	
3 Nitrite as N	4.117	4.108	0.009	40707533	2.38	
4 Bromide	5.042	5.033	0.009	32438198	0	
5 Nitrate as N	5.775	5.767	0.008	45954217	2.31	
6 Orthophosphate	7.867	7.858	0.009	21964015	2.19	
7 Sulfate	9.508	9.500	0.008	314648049	0	

Report Date: 26-Jun-2012 10:07:31

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\6240-0011059-006.d

Injection Date: 25-Jun-2012 12:19:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

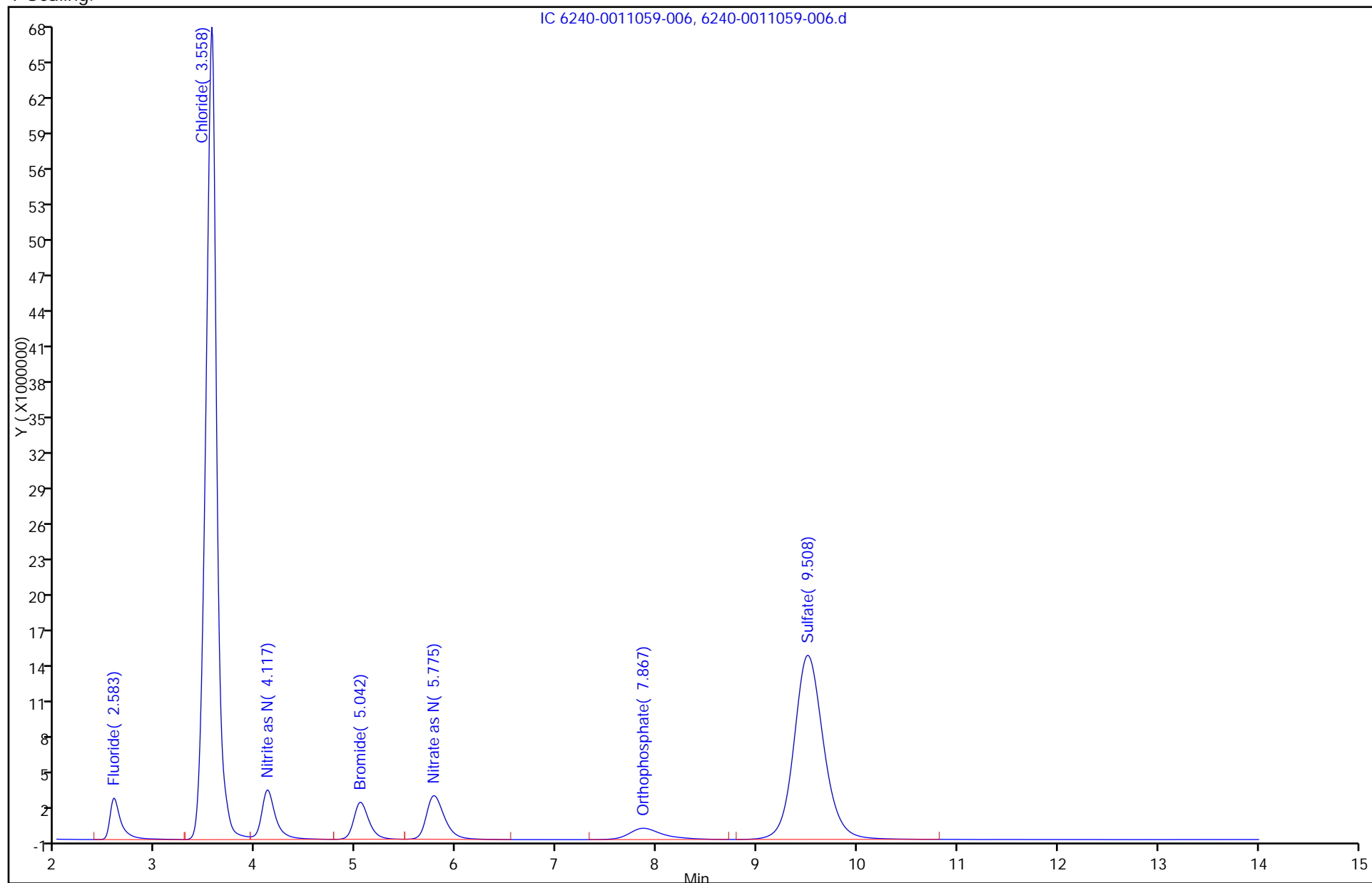
Lims Batch ID: 48697

Lims Sample ID: 6

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\7240-0011059-007.d
 Lims ID: 240-12605-D-1 Client ID: MW-101(20120622)
 Inject. Date: 25-Jun-2012 12:35:00 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 240-0011059-007
 Misc. Info.: 7 240-12605-D-1
 Operator: Instrument ID: SIMON
 Vol. Injected: 25.0000 ALS Bottle#: 0
 Lims Batch ID: 48697 Lims Sample ID: 7
 Detector: IC 7240-0011059-007
 Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
 Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
 Limit Group: WET IC SH ICAL
 Integrator: Falcon
 Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:02:10

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.609	2.583	0.026	557445	0	
2 Chloride	3.575	3.558	0.017	73402106	0	
3 Nitrite as N		4.108				1
4 Bromide	5.084	5.033	0.051	319839	0	
5 Nitrate as N	5.817	5.767	0.050	16290292	0.8186	
6 Orthophosphate	8.125	7.858	0.267	2628888	0.2627	M
7 Sulfate	9.575	9.500	0.075	45725740	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:31

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\7240-0011059-007.d

Injection Date: 25-Jun-2012 12:35:00

Limit Group: WET IC SH ICAL

Client ID: MW-101(20120622)

Instrument ID: SIMON

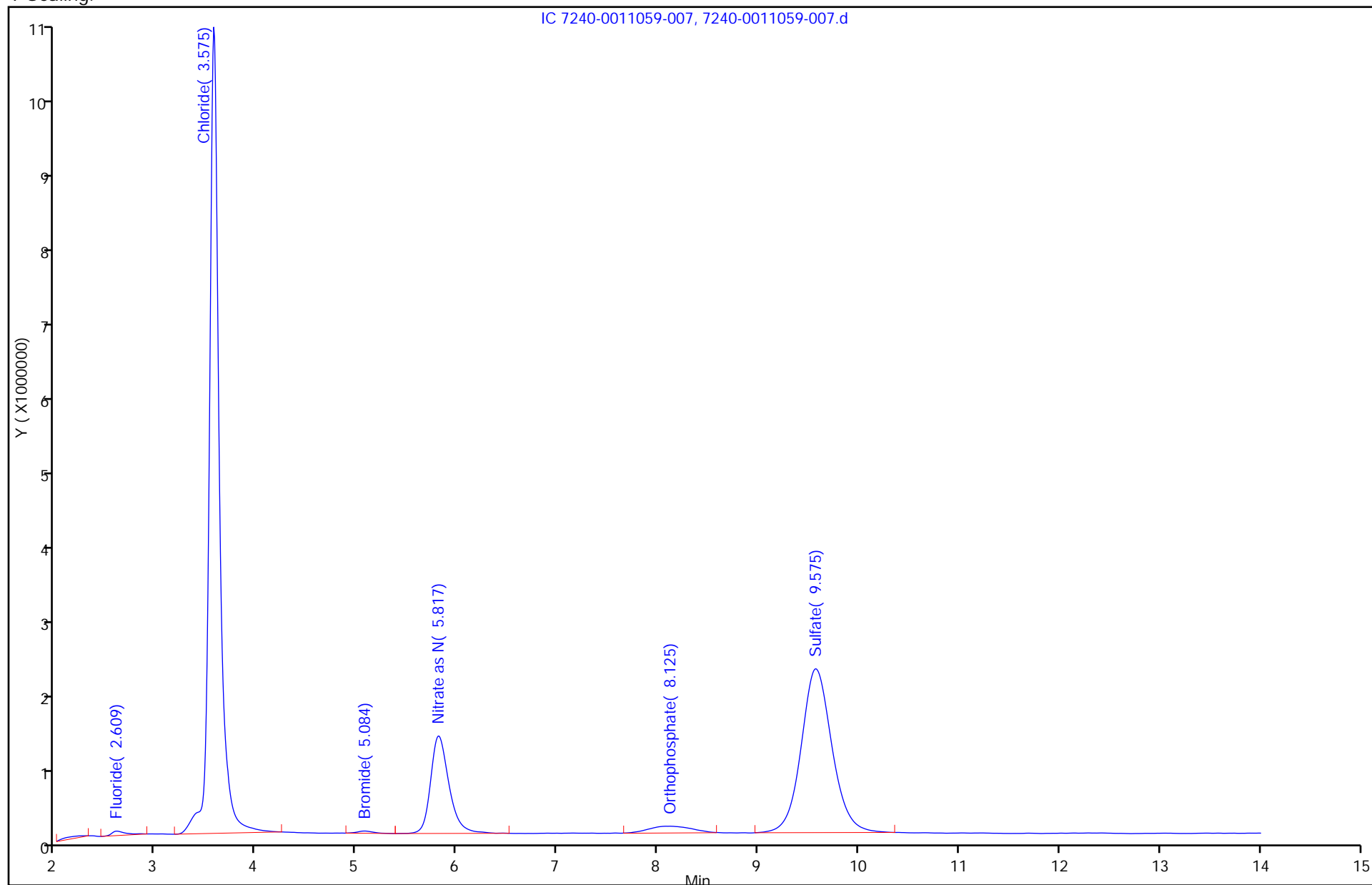
Lims Batch ID: 48697

Lims Sample ID: 7

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\8240-0011059-008.d
Lims ID: 240-12605-D-3 Client ID: MW-102A(20120622)
Inject. Date: 25-Jun-2012 12:52:00 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011059-008
Misc. Info.: 8 240-12605-D-3
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 8
Detector: IC 8240-0011059-008
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:02:16

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.609	2.583	0.026	546428	0.0495	M
2 Chloride	3.559	3.558	0.001	55834107	5.27	
3 Nitrite as N		4.108				1
4 Bromide		5.033				
5 Nitrate as N	5.792	5.767	0.025	24613936	0	
6 Orthophosphate	8.100	7.858	0.242	1668185	0	
7 Sulfate	9.559	9.500	0.059	77268373	11.7	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:32

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\8240-0011059-008.d

Injection Date: 25-Jun-2012 12:52:00

Limit Group: WET IC ICAL

Client ID: MW-102A(20120622)

Instrument ID: SIMON

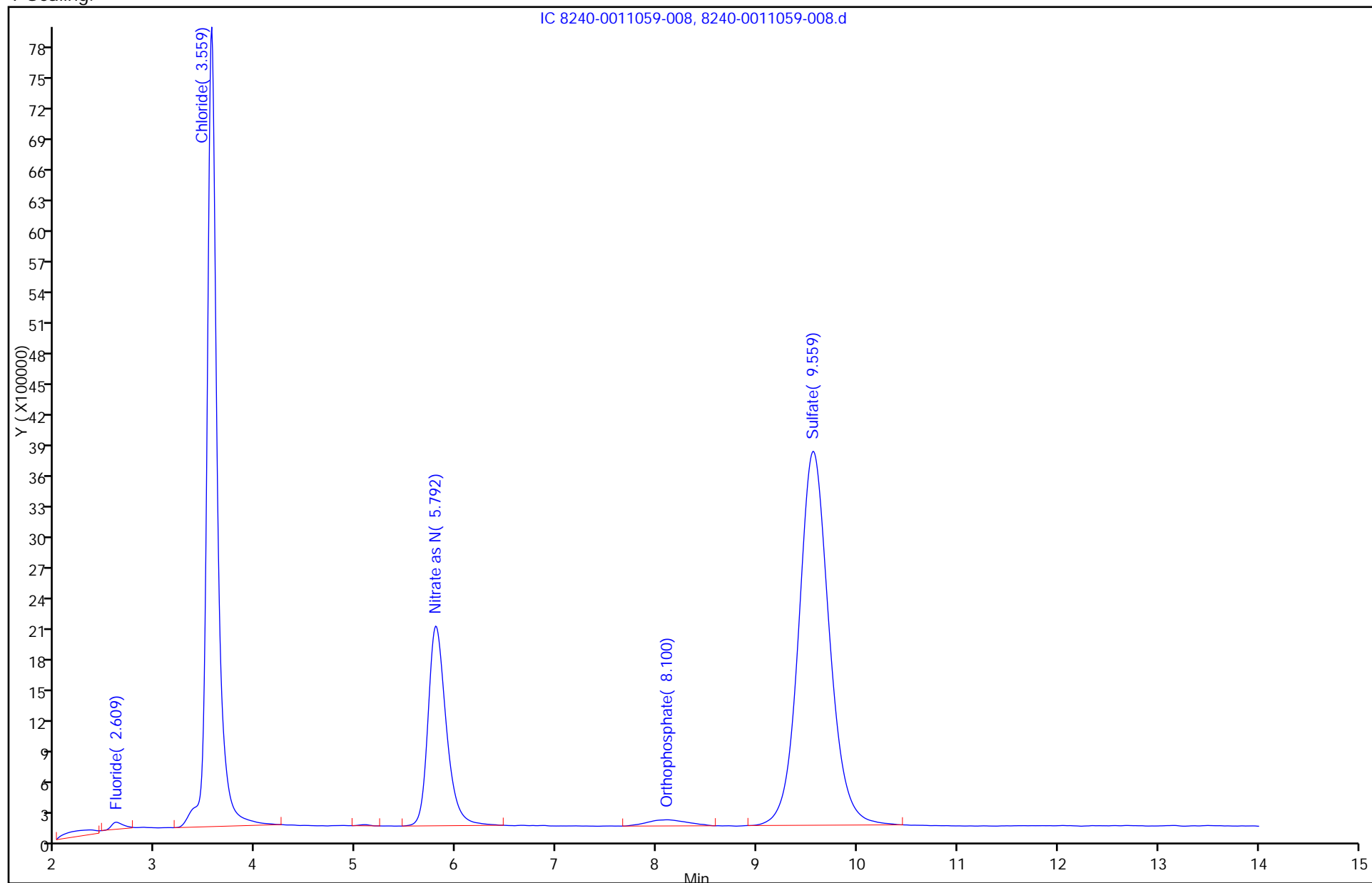
Lims Batch ID: 48696

Lims Sample ID: 8

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:

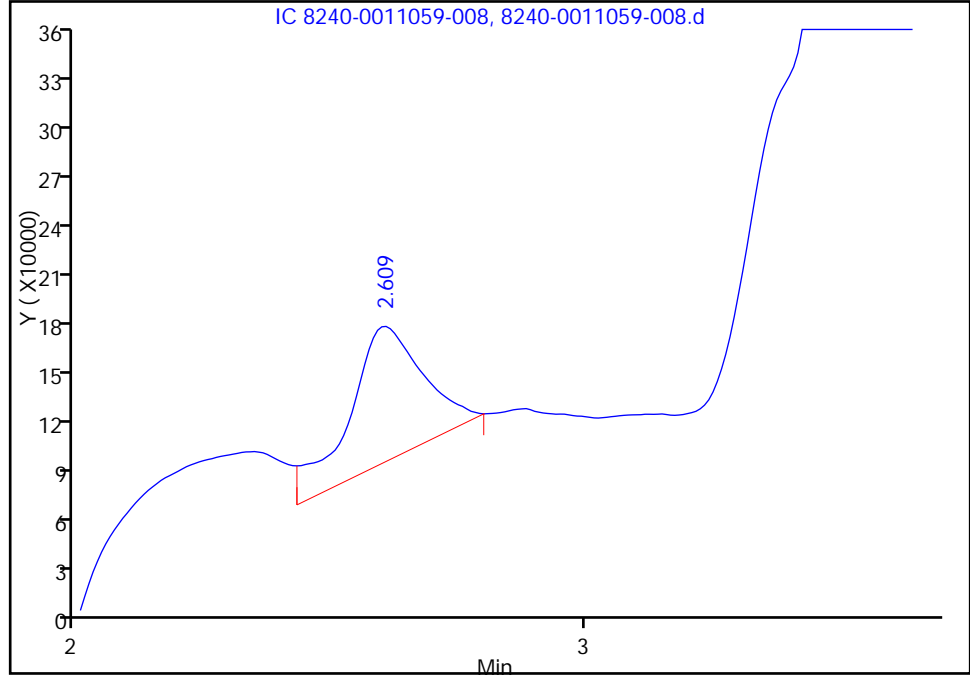


Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\8240-0011059-008.d
Injection Date: 25-Jun-2012 12:52:00 Limit Group: WET IC ICAL
Client ID: MW-102A(20120622) Instrument ID: SIMON
Lims Batch ID: 48696 Lims Sample ID: 8
Operator ID: Injection Vol: 25.00 ul

1 Fluoride, Signal: 1, Type: quant, RT: 2.58

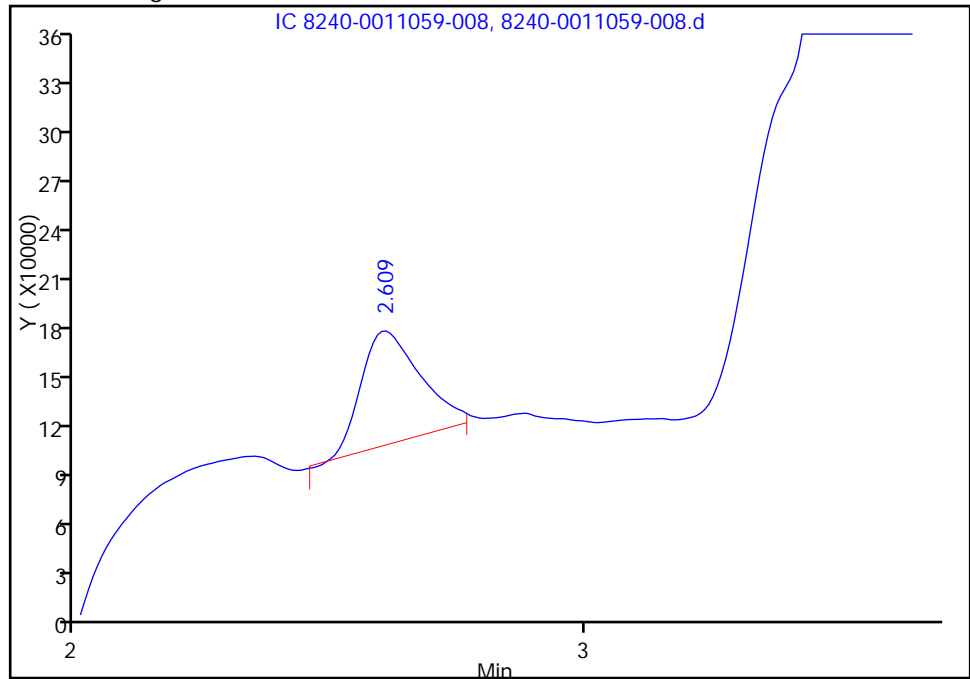
RT: 2.61
Response: 814982
Amount: 0

Processing Integration Results



RT: 2.61
Response: 546428
Amount: 0.049512

Manual Integration Results



Reviewer: grossmanl, 26-Jun-2012 10:02:16

Audit Action: Manually Integrated

Audit Reason: Baseline Event

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\8240-0011059-008.d
Lims ID: 240-12605-D-3 Client ID: MW-102A(20120622)
Inject. Date: 25-Jun-2012 12:52:00 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011059-008
Misc. Info.: 8 240-12605-D-3
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 8
Detector: IC 8240-0011059-008
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:02:16

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.609	2.583	0.026	546428	0	M
2 Chloride	3.559	3.558	0.001	55834107	0	
3 Nitrite as N		4.108				1
4 Bromide		5.033				
5 Nitrate as N	5.792	5.767	0.025	24613936	1.24	
6 Orthophosphate	8.100	7.858	0.242	1668185	0.1667	
7 Sulfate	9.559	9.500	0.059	77268373	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:32

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\8240-0011059-008.d

Injection Date: 25-Jun-2012 12:52:00

Limit Group: WET IC SH ICAL

Client ID: MW-102A(20120622)

Instrument ID: SIMON

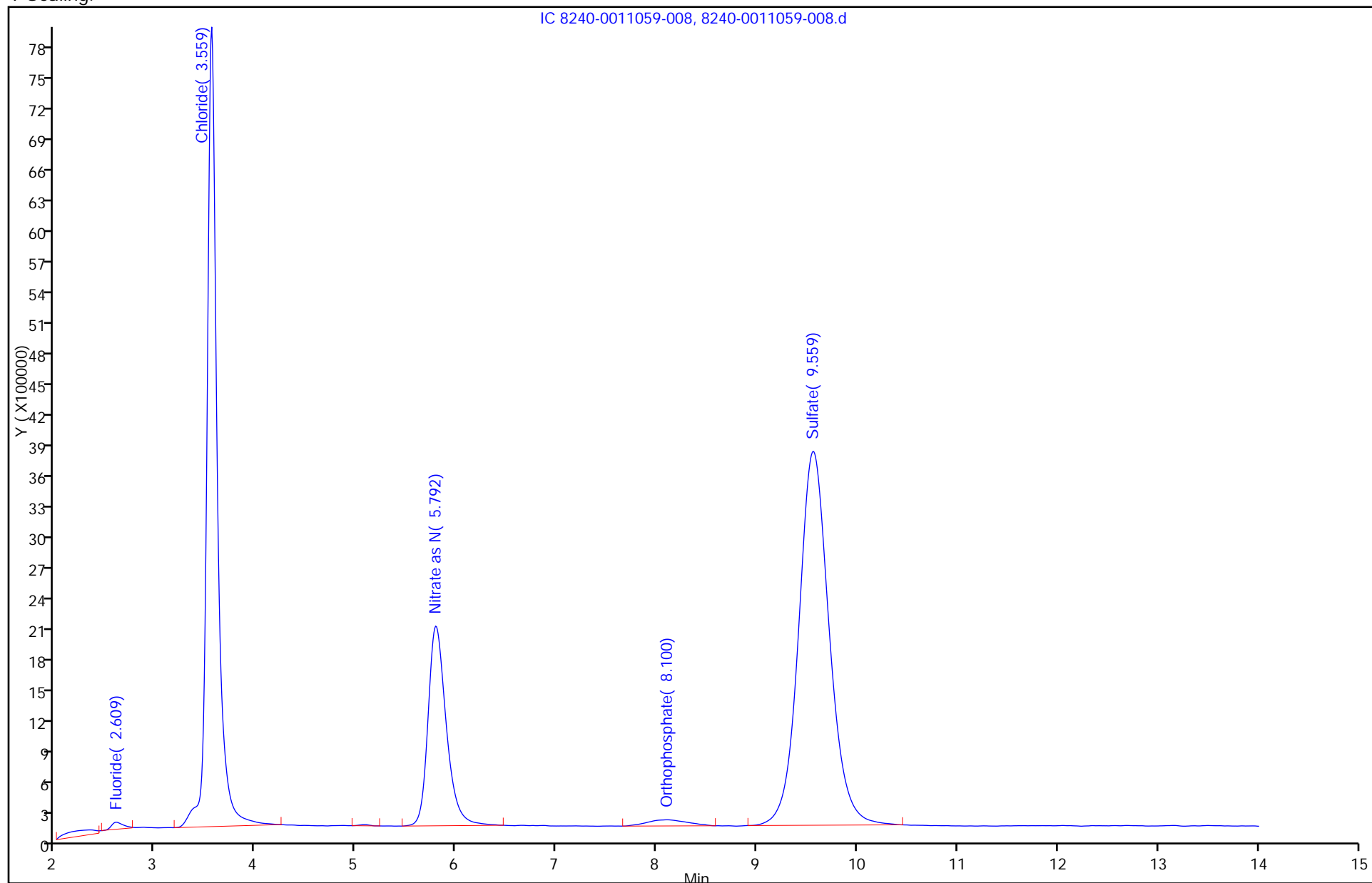
Lims Batch ID: 48697

Lims Sample ID: 8

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\9240-0011059-009.d
Lims ID: 240-12605-D-2 Client ID: MW-1A(20120622)
Inject. Date: 25-Jun-2012 13:08:00 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011059-009
Misc. Info.: 9 240-12605-D-2
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 9
Detector: IC 9240-0011059-009
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:02:25

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.609	2.583	0.026	467767	0.0424	M
2 Chloride	3.584	3.558	0.026	66628606	6.29	
3 Nitrite as N		4.108				1
4 Bromide		5.033				
5 Nitrate as N	5.800	5.767	0.033	32035992	0	
6 Orthophosphate	8.125	7.858	0.267	1471132	0	
7 Sulfate	9.584	9.500	0.084	40812683	6.19	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:32

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\9240-0011059-009.d

Injection Date: 25-Jun-2012 13:08:00

Limit Group: WET IC ICAL

Client ID: MW-1A(20120622)

Instrument ID: SIMON

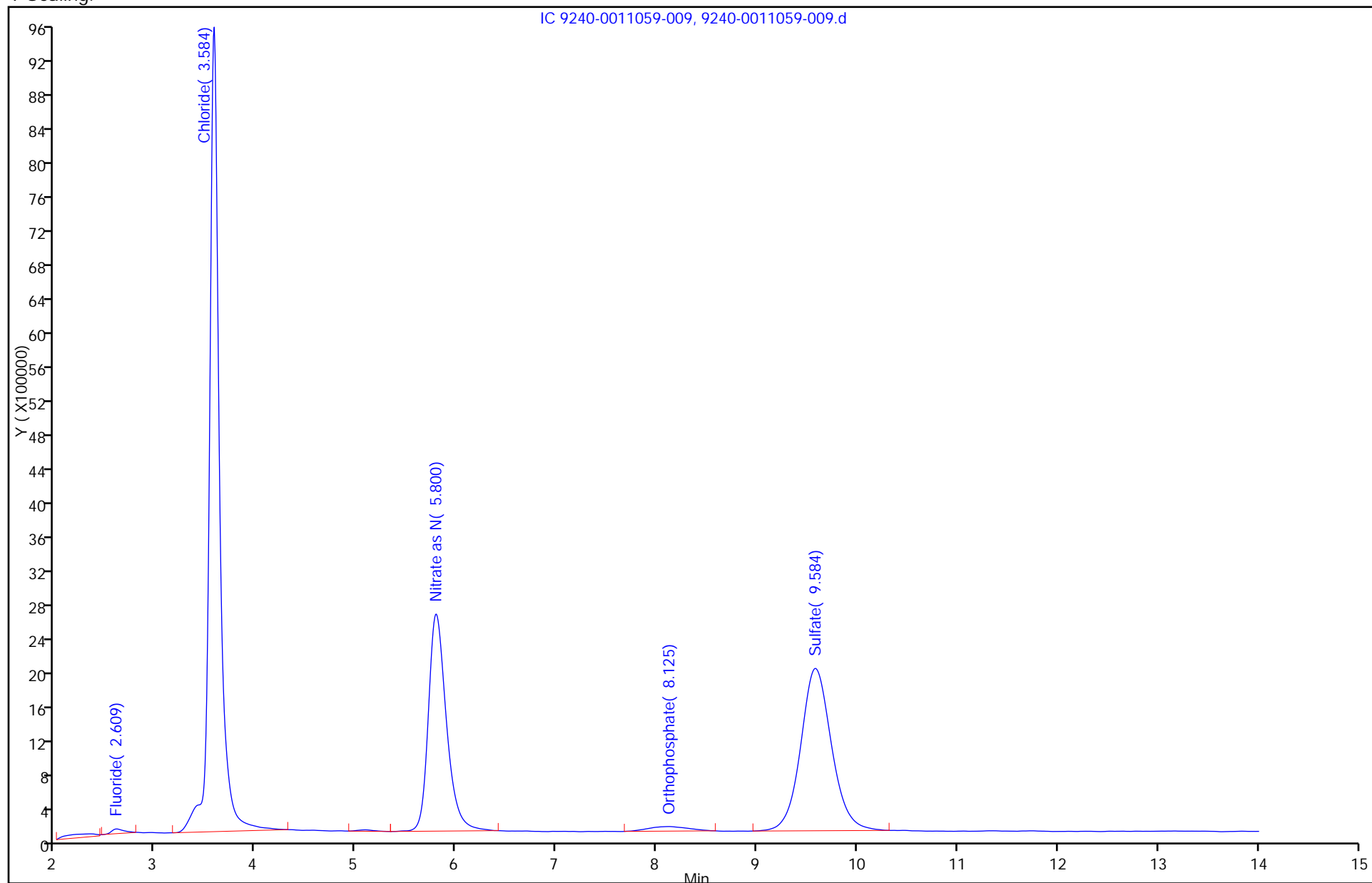
Lims Batch ID: 48696

Lims Sample ID: 9

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:

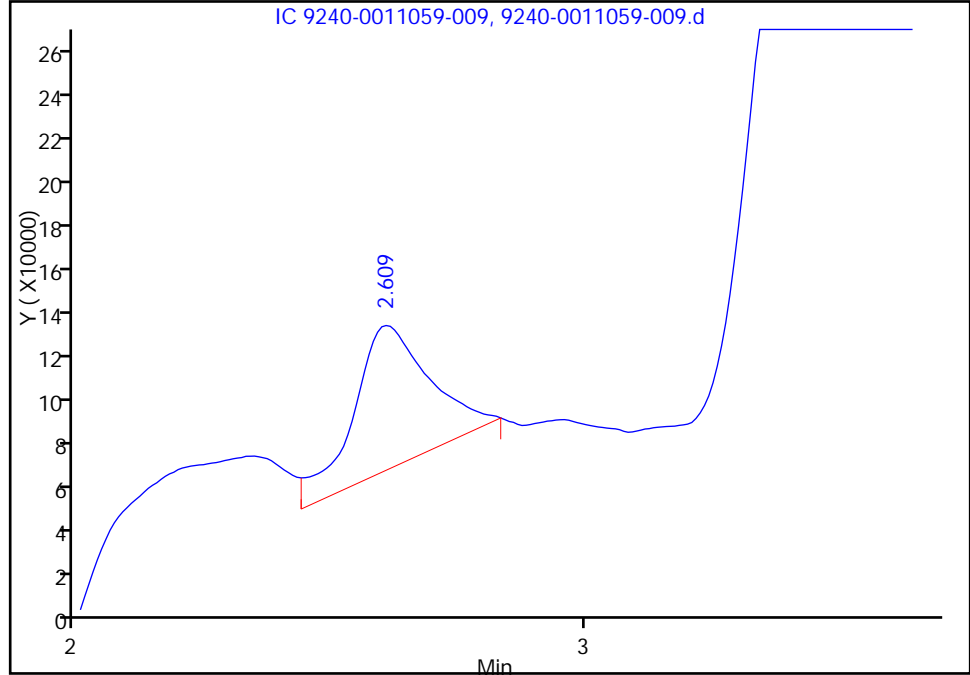


Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\9240-0011059-009.d
Injection Date: 25-Jun-2012 13:08:00 Limit Group: WET IC ICAL
Client ID: MW-1A(20120622) Instrument ID: SIMON
Lims Batch ID: 48696 Lims Sample ID: 9
Operator ID: Injection Vol: 25.00 ul

1 Fluoride, Signal: 1, Type: quant, RT: 2.58

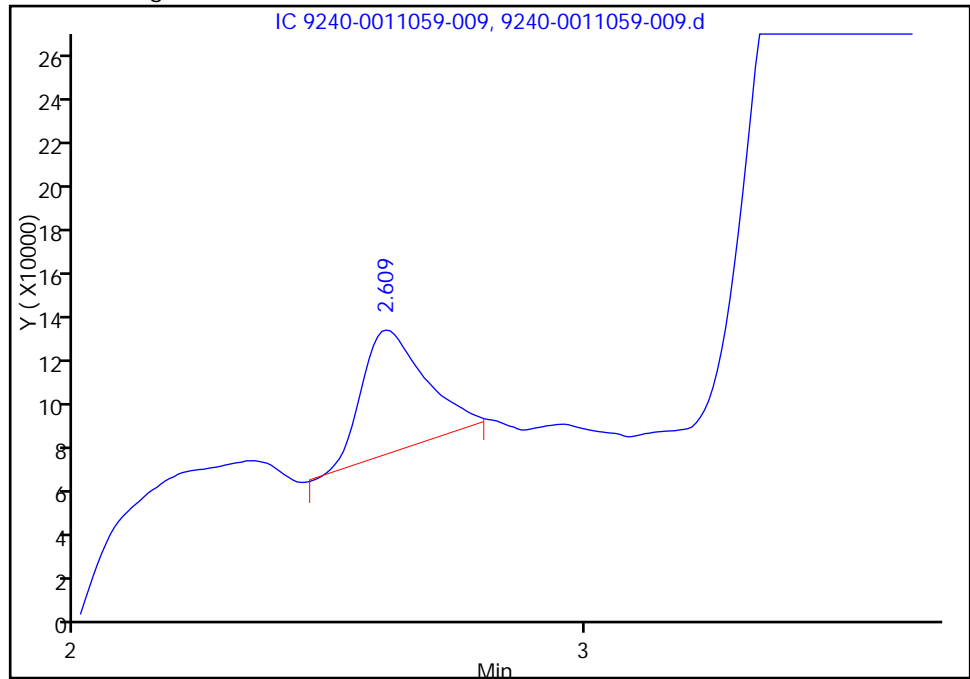
RT: 2.61
Response: 661280
Amount: 0

Processing Integration Results



RT: 2.61
Response: 467767
Amount: 0.042384

Manual Integration Results



Reviewer: grossmanl, 26-Jun-2012 10:02:25
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\9240-0011059-009.d
Lims ID: 240-12605-D-2 Client ID: MW-1A(20120622)
Inject. Date: 25-Jun-2012 13:08:00 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011059-009
Misc. Info.: 9 240-12605-D-2
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 9
Detector: IC 9240-0011059-009
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:02:25

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.609	2.583	0.026	467767	0	M
2 Chloride	3.584	3.558	0.026	66628606	0	
3 Nitrite as N		4.108				1
4 Bromide		5.033				
5 Nitrate as N	5.800	5.767	0.033	32035992	1.61	
6 Orthophosphate	8.125	7.858	0.267	1471132	0.1470	
7 Sulfate	9.584	9.500	0.084	40812683	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:32

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Nccchrom\ChromData\SIMON\20120625-11059.b\9240-0011059-009.d

Injection Date: 25-Jun-2012 13:08:00

Limit Group: WET IC SH ICAL

Client ID: MW-1A(20120622)

Instrument ID: SIMON

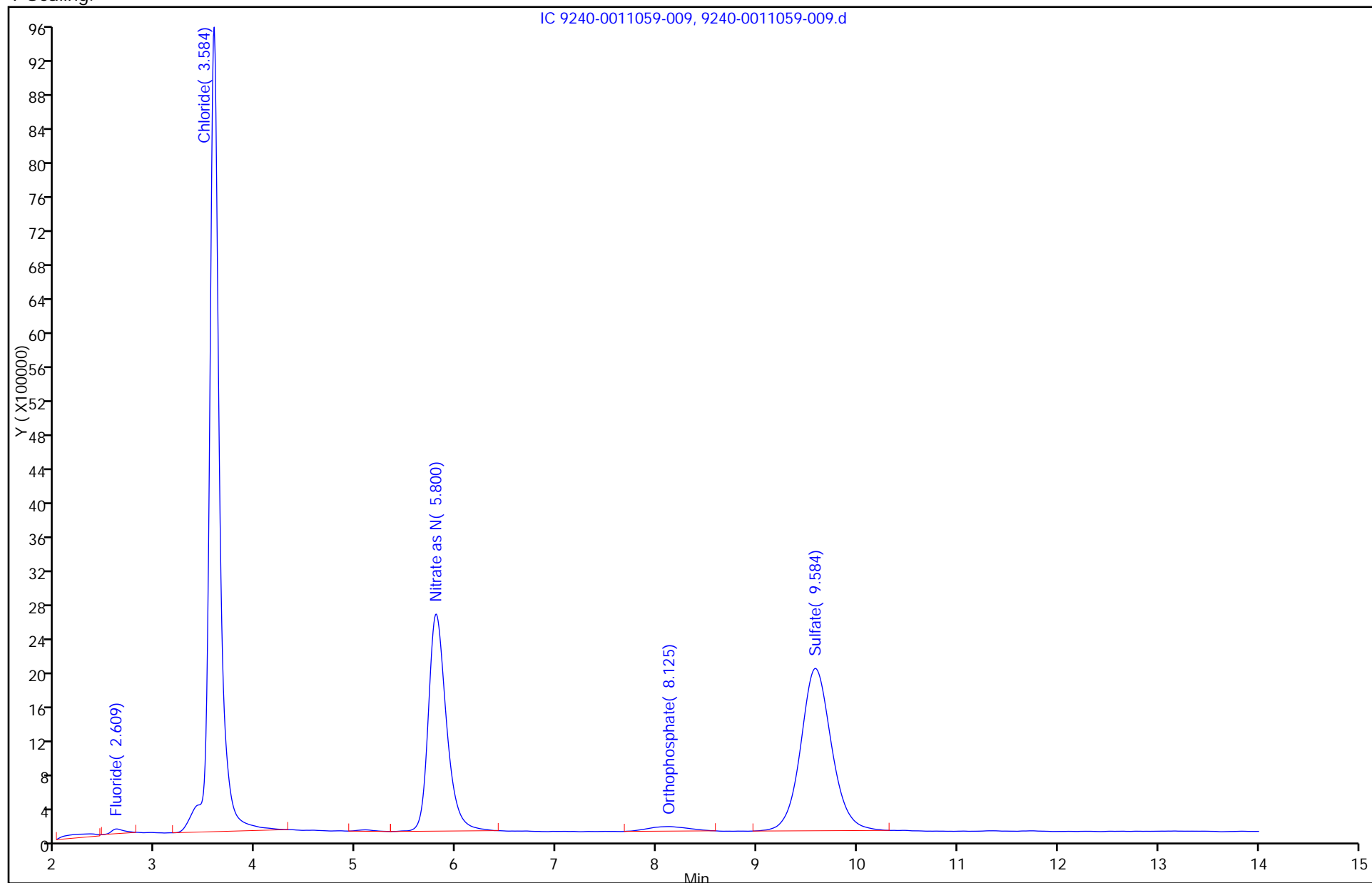
Lims Batch ID: 48697

Lims Sample ID: 9

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\10240-0011059-010.d
Lims ID: 240-12605-D-2 MS Client ID:
Inject. Date: 25-Jun-2012 13:25:00 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0011059-010
Misc. Info.: 10 240-12605-D-2 MS
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 10
Detector: IC 10240-0011059-010
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.592	2.583	0.009	33319821	3.02	
2 Chloride	3.609	3.558	0.051	638017668	60.2	
3 Nitrite as N	4.134	4.108	0.026	45788332	0	
4 Bromide	5.050	5.033	0.017	35994385	10.6	
5 Nitrate as N	5.767	5.767	0.0	83855635	0	
6 Orthophosphate	7.950	7.858	0.092	51941247	0	
7 Sulfate	9.517	9.500	0.017	385551217	58.5	

Report Date: 26-Jun-2012 10:07:32

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\10240-0011059-010.d

Injection Date: 25-Jun-2012 13:25:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

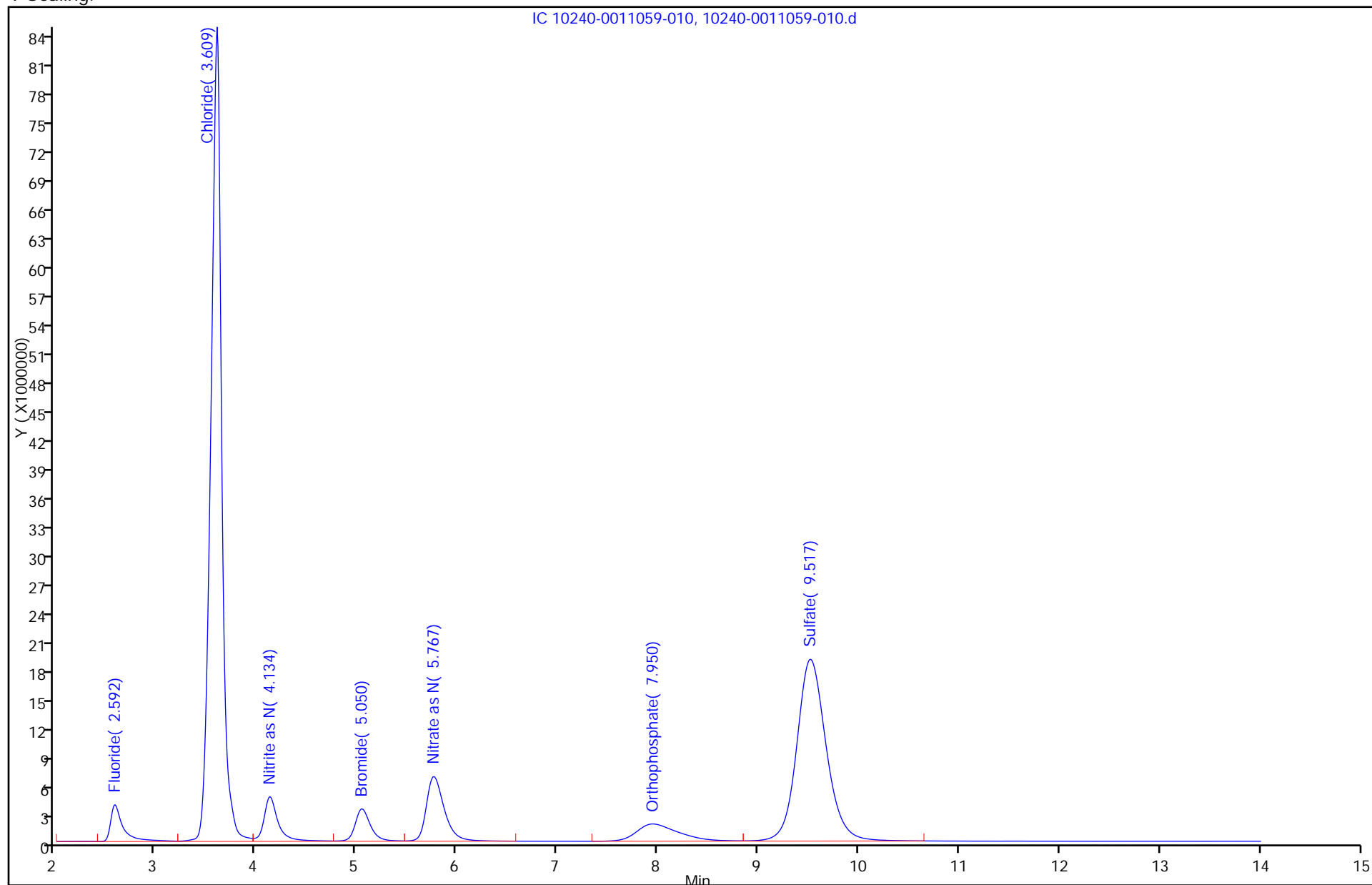
Lims Batch ID: 48696

Lims Sample ID: 10

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\10240-0011059-010.d
Lims ID: 240-12605-D-2 MS Client ID:
Inject. Date: 25-Jun-2012 13:25:00 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0011059-010
Misc. Info.: 10 240-12605-D-2 MS
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 10
Detector: IC 10240-0011059-010
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:30 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.592	2.583	0.009	33319821	0	
2 Chloride	3.609	3.558	0.051	638017668	0	
3 Nitrite as N	4.134	4.108	0.026	45788332	2.68	
4 Bromide	5.050	5.033	0.017	35994385	0	
5 Nitrate as N	5.767	5.767	0.0	83855635	4.21	
6 Orthophosphate	7.950	7.858	0.092	51941247	5.19	
7 Sulfate	9.517	9.500	0.017	385551217	0	

Report Date: 26-Jun-2012 10:07:32

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\10240-0011059-010.d

Injection Date: 25-Jun-2012 13:25:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

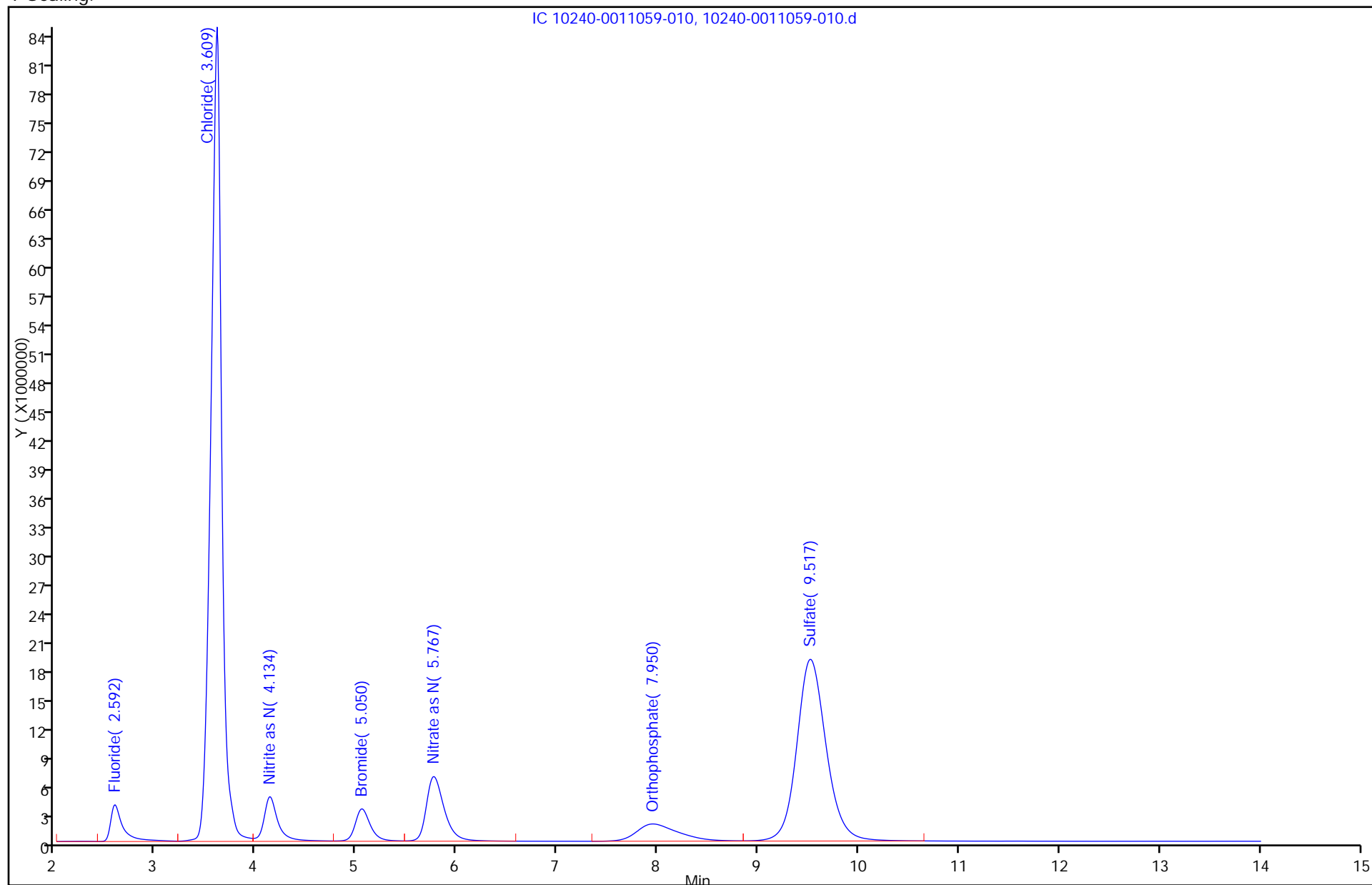
Lims Batch ID: 48697

Lims Sample ID: 10

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\13240-0011059-013.d
Lims ID: ccv Client ID:
Inject. Date: 25-Jun-2012 14:14:00 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0011059-013
Misc. Info.: 13 CCV
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 13
Detector: IC 13240-0011059-013
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:33 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.592	2.592	0.0	27493320	2.49	
2 Chloride	3.575	3.575	0.0	530023663	50.0	
3 Nitrite as N	4.125	4.125	0.0	41168318	0	
4 Bromide	5.042	5.042	0.0	33068450	9.74	
5 Nitrate as N	5.767	5.767	0.0	47492970	0	
6 Orthophosphate	7.875	7.875	0.0	23591087	0	
7 Sulfate	9.517	9.517	0.0	321132614	48.7	

Report Date: 26-Jun-2012 10:07:33

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\13240-0011059-013.d

Injection Date: 25-Jun-2012 14:14:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

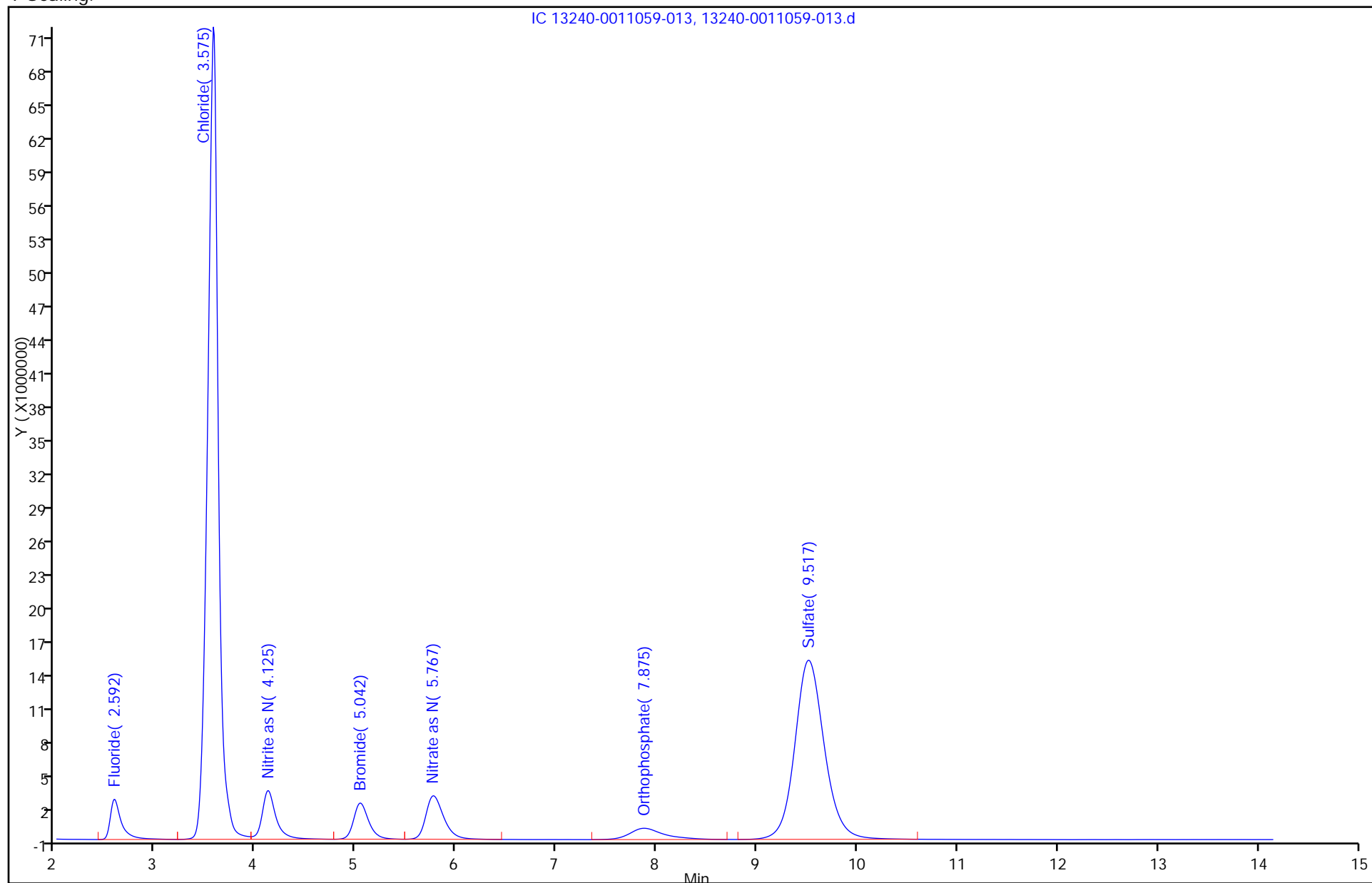
Lims Batch ID: 48696

Lims Sample ID: 13

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\13240-0011059-013.d
Lims ID: ccv Client ID:
Inject. Date: 25-Jun-2012 14:14:00 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0011059-013
Misc. Info.: 13 CCV
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 13
Detector: IC 13240-0011059-013
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:33 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride	2.592	2.592	0.0	27493320	0	
2 Chloride	3.575	3.575	0.0	530023663	0	
3 Nitrite as N	4.125	4.125	0.0	41168318	2.41	
4 Bromide	5.042	5.042	0.0	33068450	0	
5 Nitrate as N	5.767	5.767	0.0	47492970	2.39	
6 Orthophosphate	7.875	7.875	0.0	23591087	2.36	
7 Sulfate	9.517	9.517	0.0	321132614	0	

Report Date: 26-Jun-2012 10:07:33

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\13240-0011059-013.d

Injection Date: 25-Jun-2012 14:14:00

Limit Group: WET IC SH ICAL

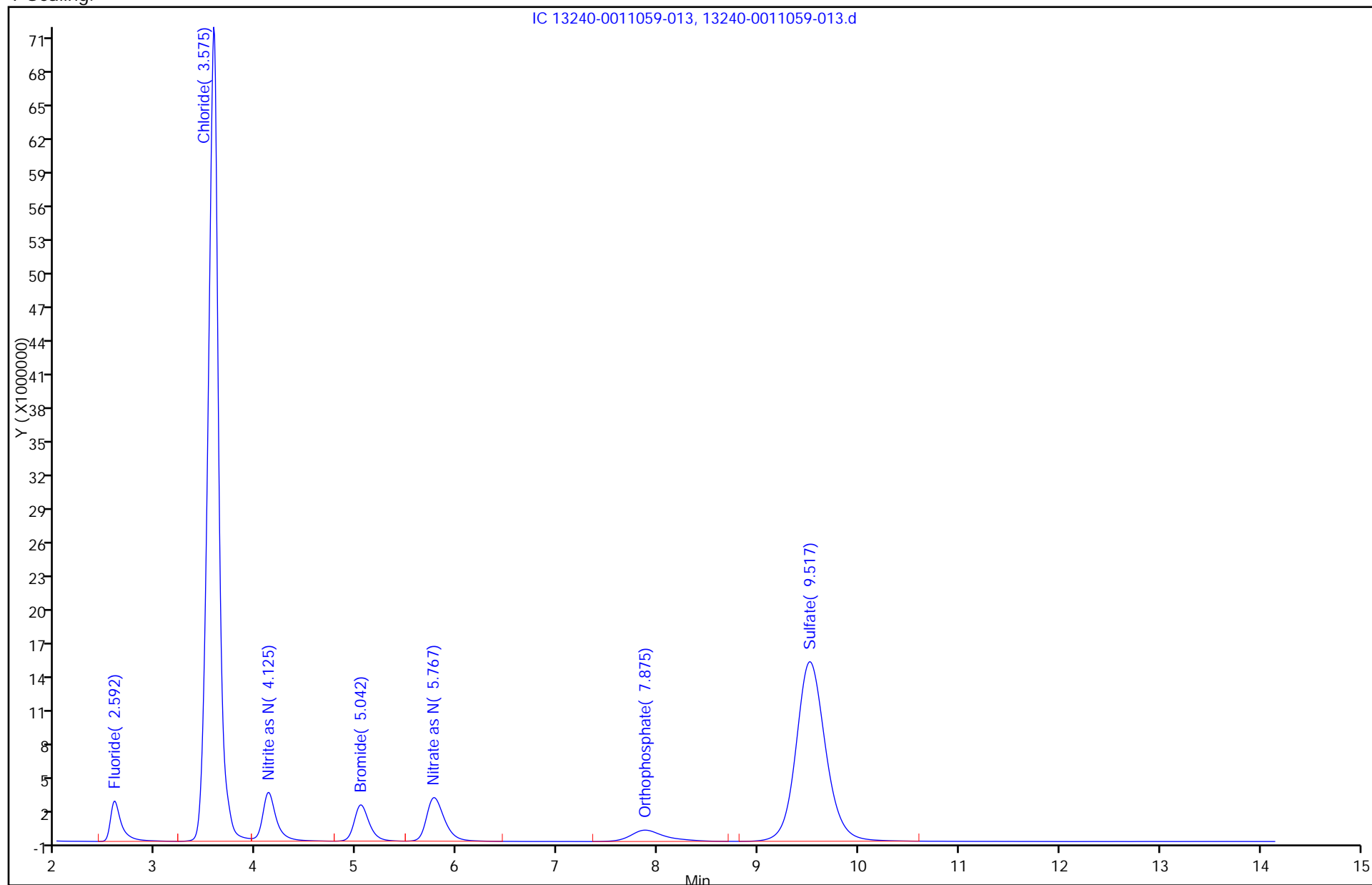
Client ID: SIMON

Lims Batch ID: 48697

Lims Sample ID: 13

Operator ID: Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\14240-0011059-014.d
Lims ID: ccb Client ID:
Inject. Date: 25-Jun-2012 14:30:00 Dil. Factor: 1.0000
Sample Type: CCB
Sample ID: 240-0011059-014
Misc. Info.: 14 CCB
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48696 Lims Sample ID: 14
Detector: IC 14240-0011059-014
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:33 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:06:53

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.592				1
2 Chloride		3.575				
3 Nitrite as N		4.125				1
4 Bromide		5.042				1
5 Nitrate as N		5.767				1
6 Orthophosphate	8.025	7.875	0.150	1483785	0	M
7 Sulfate		9.517				

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:33

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\14240-0011059-014.d

Injection Date: 25-Jun-2012 14:30:00

Limit Group: WET IC ICAL

Client ID:

Instrument ID: SIMON

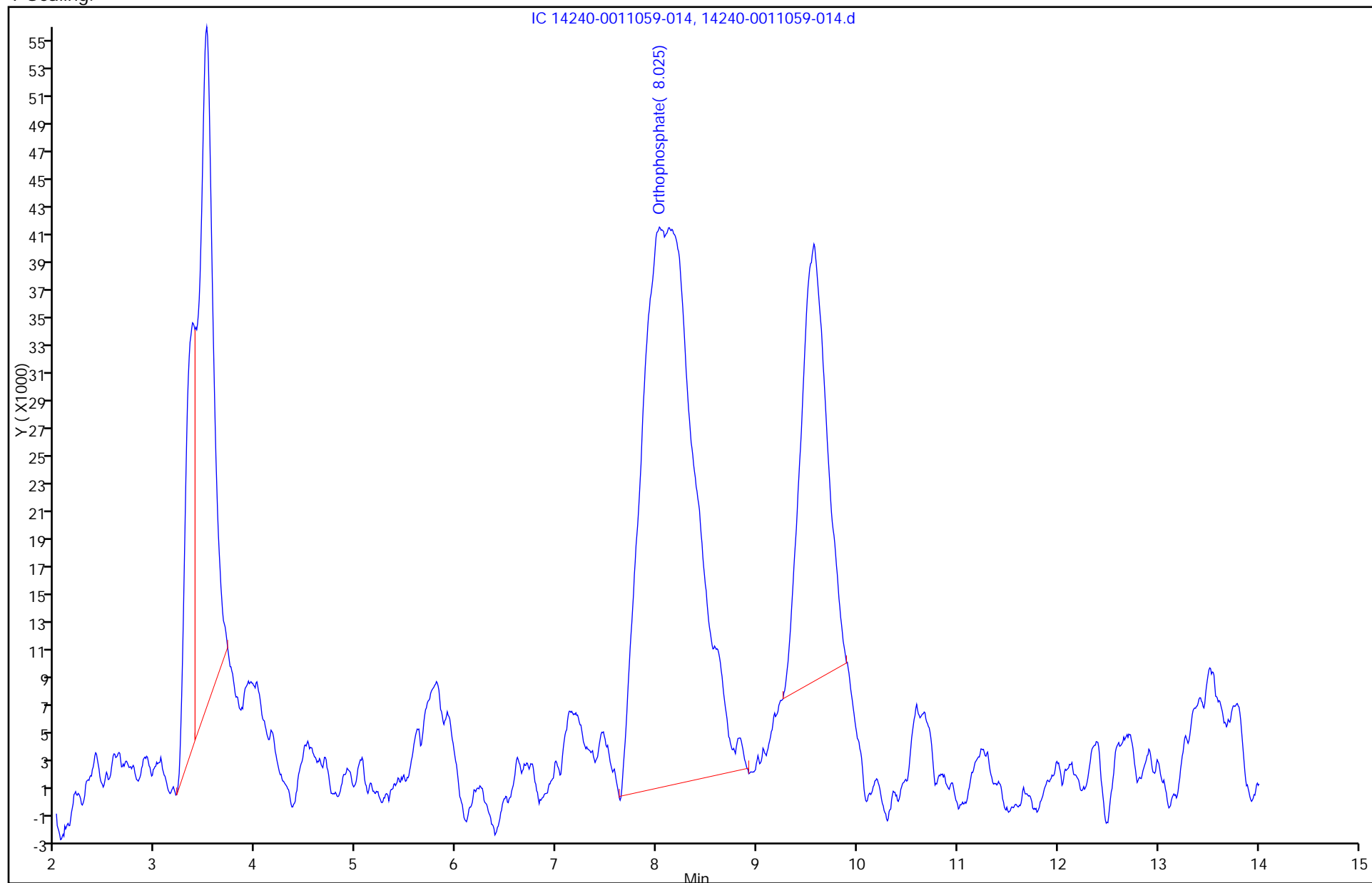
Lims Batch ID: 48696

Lims Sample ID: 14

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\14240-0011059-014.d
Lims ID: ccb Client ID:
Inject. Date: 25-Jun-2012 14:30:00 Dil. Factor: 1.0000
Sample Type: CCB
Sample ID: 240-0011059-014
Misc. Info.: 14 CCB
Operator: Instrument ID: SIMON
Vol. Injected: 25.0000 ALS Bottle#: 0
Lims Batch ID: 48697 Lims Sample ID: 14
Detector: IC 14240-0011059-014
Method: \\Ncchrom\ChromData\SIMON\20120625-11059.b\300_Simon.m
Last Update: 26-Jun-2012 10:07:33 Calib Date: 22-Jun-2012 19:12:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\SIMON\20120620-10901.b\11240-0010901-011.d
Limit Group: WET IC SH ICAL
Integrator: Falcon
Process Host: CORP-CTX-17

First Level Reviewer: grossmanl

Date: 26-Jun-2012 10:06:53

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
1 Fluoride		2.592				1
2 Chloride		3.575				
3 Nitrite as N		4.125				1
4 Bromide		5.042				1
5 Nitrate as N		5.767				1
6 Orthophosphate	8.025	7.875	0.150	1483785	0.1483	M
7 Sulfate		9.517				

QC Flag Legend

Processing Flags

1 - Missing Peaks

Review Flags

M - Manually Integrated

Report Date: 26-Jun-2012 10:07:33

Chrom Revision: 2.0 08-Feb-2012 11:07:54

Data File: \\Ncchrom\ChromData\SIMON\20120625-11059.b\14240-0011059-014.d

Injection Date: 25-Jun-2012 14:30:00

Limit Group: WET IC SH ICAL

Client ID:

Instrument ID: SIMON

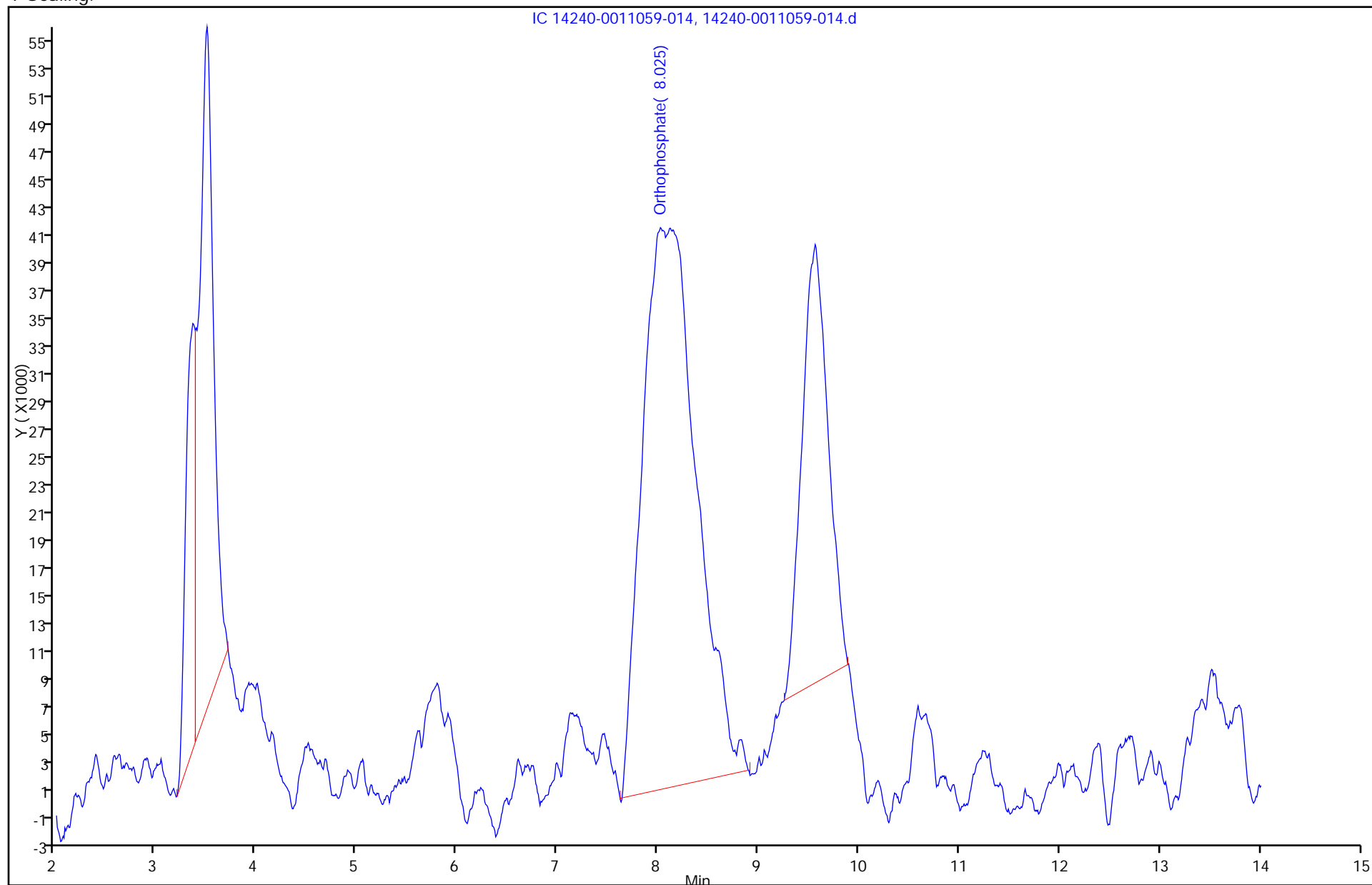
Lims Batch ID: 48697

Lims Sample ID: 14

Operator ID:

Injection Vol: 25.00 ul

Y Scaling:



TestAmerica

Instrument ID: Steve

310.1, 2320B, 305.1, 2310B, 340.2, 4500F-C

07/12/2012

Analyst _____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid
rinse-1	6/29/2012	11:34 AM	-1.00	8.86	8.91	51.59	33.77	17.82	.00	-1.00	-1.00
rinse-2	6/29/2012	11:43 AM	-1.00	8.99	5.53	47.21	36.16	11.06	.00	-1.00	-1.00
PH 7	6/29/2012	11:57 AM	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
lcs #503815	6/29/2012	12:05 PM	-1.00	8.10	.00	82.52	82.52	.00	.00	-1.00	-1.00
MB	6/29/2012	12:11 PM	-1.00	6.48	.00	1.38	1.38	.00	.00	-1.00	-1.00
PH 7A	6/29/2012	12:15 PM	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
240-12511-F-2	6/29/2012	12:35 PM	-1.00	4.25	.00	-1.10	-1.10	.00	.00	-1.00	-1.00
du	6/29/2012	12:39 PM	-1.00	3.96	.00	.00	.00	.00	.00	-1.00	-1.00
ms	6/29/2012	12:54 PM	-1.00	10.78	233.22	485.25	18.81	466.44	.00	-1.00	-1.00
msd	6/29/2012	1:11 PM	-1.00	10.83	252.46	506.00	1.08	504.92	.00	-1.00	-1.00
240-12533-J-7	6/29/2012	1:20 PM	-1.00	7.54	.00	235.40	235.40	.00	.00	-1.00	-1.00
240-12533-J-8	6/29/2012	1:33 PM	-1.00	6.87	.00	402.42	402.42	.00	.00	-1.00	-1.00
240-12533-J-11	6/29/2012	1:45 PM	-1.00	7.20	.00	339.15	339.15	.00	.00	-1.00	-1.00
240-12533-J-12	6/29/2012	1:56 PM	-1.00	7.51	.00	295.14	295.14	.00	.00	-1.00	-1.00
240-12533-J-16	6/29/2012	2:05 PM	-1.00	7.46	.00	230.76	230.76	.00	.00	-1.00	-1.00
240-12533-J-17	6/29/2012	2:19 PM	-1.00	7.35	.00	451.08	451.08	.00	.00	-1.00	-1.00
PH 7-2	6/29/2012	2:22 PM	-1.00	7.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
240-12547-C-5@f	6/29/2012	2:38 PM	-1.00	7.45	.00	587.58	587.58	.00	.00	-1.00	-1.00
240-12547-C-9@f	6/29/2012	2:54 PM	-1.00	7.63	.00	546.00	546.00	.00	.00	-1.00	-1.00
240-12552-F-1	6/29/2012	3:10 PM	-1.00	7.24	.00	548.41	548.41	.00	.00	-1.00	-1.00
240-12552-F-2	6/29/2012	3:14 PM	-1.00	3.93	.00	.00	.00	.00	.00	-1.00	-1.00
du	6/29/2012	3:18 PM	-1.00	3.65	.00	.00	.00	.00	.00	-1.00	-1.00

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Analyst _____
 LCS _____
 Date _____

07/12/2012

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid
240-12552-F-3	6/29/2012	3:34 PM	-1.00	7.26	.00	533.12	533.12	.00	.00	-1.00	-1.00
240-12552-F-4	6/29/2012	3:39 PM	-1.00	4.55	.00	-.74	-.74	.00	.00	-1.00	-1.00
240-12553-D-1	6/29/2012	3:49 PM	-1.00	7.62	.00	254.92	254.92	.00	.00	-1.00	-1.00
240-12553-E-2	6/29/2012	3:59 PM	-1.00	7.88	.00	244.51	244.51	.00	.00	-1.00	-1.00
240-12553-D-3	6/29/2012	4:08 PM	-1.00	8.06	.00	161.52	161.52	.00	.00	-1.00	-1.00
PH 7-3	6/29/2012	4:12 PM	-1.00	7.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
240-12562-I-1	6/29/2012	4:24 PM	-1.00	7.34	.00	391.93	391.93	.00	.00	-1.00	-1.00
240-12562-I-2	6/29/2012	4:35 PM	-1.00	7.69	.00	263.95	263.95	.00	.00	-1.00	-1.00
240-12605-E-1	6/29/2012	4:45 PM	-1.00	7.82	.00	258.91	258.91	.00	.00	-1.00	-1.00
240-12605-D-2	6/29/2012	4:56 PM	-1.00	7.83	.00	281.97	281.97	.00	.00	-1.00	-1.00
LCS	6/29/2012	5:05 PM	-1.00	8.20	.00	80.95	80.95	.00	.00	-1.00	-1.00
MB	6/29/2012	5:11 PM	-1.00	6.57	.00	12.85	12.85	.00	.00	-1.00	-1.00
240-12605-d-3	6/29/2012	5:20 PM	-1.00	8.05	.00	162.65	162.65	.00	.00	-1.00	-1.00
DU	6/29/2012	5:29 PM	-1.00	8.09	.00	163.37	163.37	.00	.00	-1.00	-1.00
MS	6/29/2012	5:46 PM	-1.00	10.14	203.55	597.76	190.67	407.10	.00	-1.00	-1.00
MSD	6/29/2012	6:03 PM	-1.00	10.16	208.40	590.67	173.87	416.80	.00	-1.00	-1.00
PH 7-4	6/29/2012	6:06 PM	-1.00	7.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
240-12606-f-1	6/29/2012	6:21 PM	-1.00	7.37	.00	505.08	505.08	.00	.00	-1.00	-1.00
240-12606-f-2	6/29/2012	6:26 PM	-1.00	4.64	.00	-.44	-.44	.00	.00	-1.00	-1.00
240-12609-j-14	6/29/2012	6:41 PM	-1.00	7.14	.00	492.67	492.67	.00	.00	-1.00	-1.00
240-12609-j-15	6/29/2012	6:53 PM	-1.00	7.19	.00	372.94	372.94	.00	.00	-1.00	-1.00
240-12663-n-1	6/29/2012	7:05 PM	-1.00	7.69	.00	346.43	346.43	.00	.00	-1.00	-1.00
240-12663-n-3	6/29/2012	7:21 PM	-1.00	7.39	.00	589.47	589.47	.00	.00	-1.00	-1.00
240-12663-n-4	6/29/2012	7:37 PM	-1.00	7.60	.00	507.13	507.13	.00	.00	-1.00	-1.00
240-12663-n-5	6/29/2012	7:51 PM	-1.00	7.53	.00	485.61	485.61	.00	.00	-1.00	-1.00
240-12663-n-6	6/29/2012	8:03 PM	-1.00	7.58	.00	372.71	372.71	.00	.00	-1.00	-1.00
240-12689-n-1	6/29/2012	8:18 PM	-1.00	7.41	.00	494.59	494.59	.00	.00	-1.00	-1.00
PH 7-5	6/29/2012	8:21 PM	-1.00	7.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

Sit to re-work

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Analyst _____
 LCS _____
 Date _____

07/12/2012

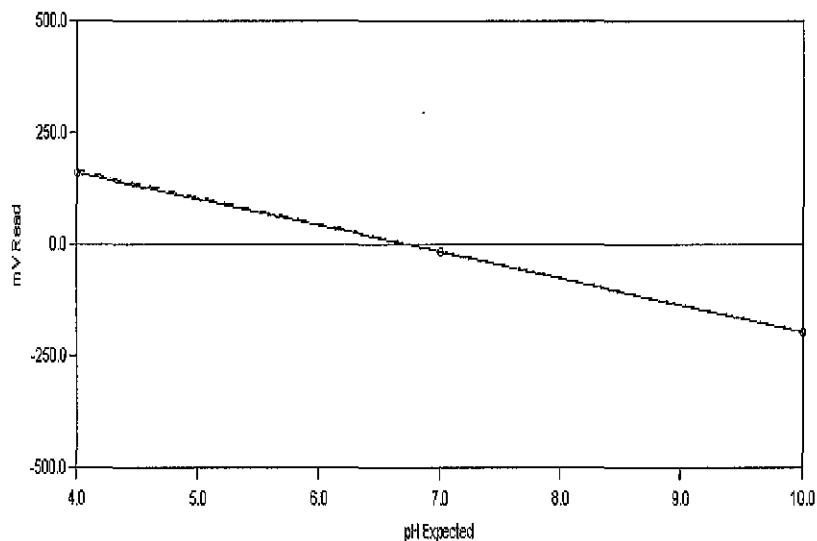
<u>Sample Name</u>	<u>Run Date</u>	<u>Run Time</u>	<u>Conductivity</u>	<u>pH</u>	<u>P-Alk</u>	<u>Total Alk</u>	<u>BiCarbonate</u>	<u>Carbonate</u>	<u>Hydroxide</u>	<u>Fluoride</u>	<u>Acid</u>
DU	6/29/2012	8:36 PM	-1.00	7.40	.00	505.86	505.86	.00	.00	-1.00	-1.00
240-12689-n-2	6/29/2012	8:51 PM	-1.00	7.56	.00	498.77	498.77	.00	.00	-1.00	-1.00
240-12765-b-1	6/29/2012	9:01 PM	-1.00	9.52	12.73	47.75	22.28	25.47	.00	-1.00	-1.00
PH 7-6	6/29/2012	9:04 PM	-1.00	6.99	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

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PC-TitratiON PLUS

Calibration Report

Calibration Record # 654



Calibration Settings

Calibration ID	PH	Date	6/29/2012
Channel	1	Time	11:53 AM
Probe Type	pH	Temperature	298.54 K 25.39 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit

Calibration Results

Slope	-59.712	CorrCoeff	1.0000
Intercept	-16.520	Equation:	$Y = (-59.712) X + (-16.520)$

Calibration Validity **True**

Operator

	Result	Minimum	Maximum
Slope	-59.712	-65.00	-53.00
Intercept	-16.520	-100.00	100.00
Correlation Coefficient	1.0000	1.00	1.00

Note: "True" means the calibration was within the specified ranges

"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00	161.86
	7.00	-15.01
	10.00	-196.41

Instrument ID: Steve

TestAmerica

310.1, 2320B, 305.1, 2310B, 340.2, 4500F-C

07/12/2012

Analyst _____

LCS _____

Date _____

<u>Sample Name</u>	<u>Run Date</u>	<u>Run Time</u>	<u>Conductivity</u>	<u>pH</u>	<u>P-Alk</u>	<u>Total Alk</u>	<u>BiCarbonate</u>	<u>Carbonate</u>	<u>Hydroxide</u>	<u>Fluoride</u>	<u>Acid</u>
rinse-1	7/3/2012	10:44 AM	-1.00	8.68	7.42	51.61	36.77	14.84	.00	-1.00	-1.00
rinse-2	7/3/2012	10:53 AM	-1.00	8.93	5.02	47.75	37.71	10.03	.00	-1.00	-1.00
PH 7	7/3/2012	11:04 AM	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
lcs #503814	7/3/2012	11:13 AM	-1.00	8.14	.00	82.68	82.68	.00	.00	-1.00	-1.00
MB	7/3/2012	11:19 AM	-1.00	6.48	.00	1.68	1.68	.00	.00	-1.00	-1.00
PH 7A	7/3/2012	11:22 AM	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
240-12605-D-3	7/3/2012	4:43 PM	-1.00	8.00	.00	164.08	164.08	.00	.00	-1.00	-1.00
240-12606-F-1	7/3/2012	4:58 PM	-1.00	7.43	.00	499.41	499.41	.00	.00	-1.00	-1.00
240-12606-F-2	7/3/2012	5:03 PM	-1.00	4.51	.00	-1.34	-1.34	.00	.00	-1.00	-1.00
240-12609-J-14	7/3/2012	5:17 PM	-1.00	7.26	.00	479.34	479.34	.00	.00	-1.00	-1.00
du	7/3/2012	5:32 PM	-1.00	7.33	.00	495.21	495.21	.00	.00	-1.00	-1.00
ms	7/3/2012	5:50 PM	-1.00	7.85	.00	668.52	668.52	.00	.00	-1.00	-1.00
msd	7/3/2012	6:09 PM	-1.00	7.80	.00	659.35	659.35	.00	.00	-1.00	-1.00
240-12609-J-15	7/3/2012	6:21 PM	-1.00	7.28	.00	373.67	373.67	.00	.00	-1.00	-1.00
240-12663-N-1	7/3/2012	6:32 PM	-1.00	7.73	.00	348.49	348.49	.00	.00	-1.00	-1.00
240-12663-N-3	7/3/2012	6:49 PM	-1.00	7.45	.00	589.38	589.38	.00	.00	-1.00	-1.00
PH 7-2	7/3/2012	6:52 PM	-1.00	6.99	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
240-12663-N-4	7/3/2012	7:07 PM	-1.00	7.70	.00	507.90	507.90	.00	.00	-1.00	-1.00
240-12663-N-5	7/3/2012	7:22 PM	-1.00	7.55	.00	484.81	484.81	.00	.00	-1.00	-1.00
240-12663-N-6	7/3/2012	7:34 PM	-1.00	7.60	.00	373.59	373.59	.00	.00	-1.00	-1.00
240-12689-N-1	7/3/2012	7:49 PM	-1.00	7.52	.00	499.05	499.05	.00	.00	-1.00	-1.00
240-12689-N-2	7/3/2012	8:04 PM	-1.00	7.64	.00	500.24	500.24	.00	.00	-1.00	-1.00

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Analyst _____
 LCS _____
 Date _____

07/12/2012

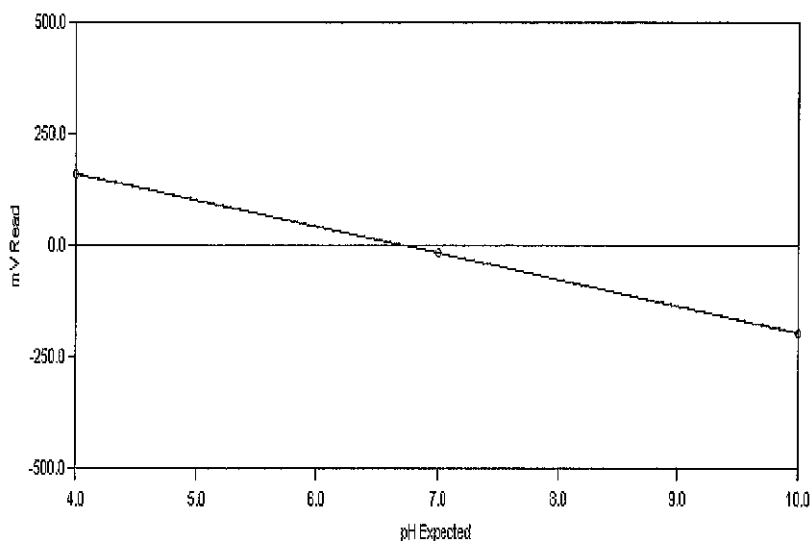
<u>Sample Name</u>	<u>Run Date</u>	<u>Run Time</u>	<u>Conductivity</u>	<u>pH</u>	<u>P-Alk</u>	<u>Total Alk</u>	<u>BiCarbonate</u>	<u>Carbonate</u>	<u>Hydroxide</u>	<u>Fluoride</u>	<u>Acid</u>
240-12765-B-1	7/3/2012	8:14 PM	-1.00	9.30	7.27	33.54	18.99	14.55	.00	-1.00	-1.00
du	7/3/2012	8:24 PM	-1.00	9.41	8.24	34.47	18.00	16.47	.00	-1.00	-1.00
240-12816-G-1	7/3/2012	8:33 PM	-1.00	8.58	6.09	181.34	169.16	12.18	.00	-1.00	-1.00
240-12819-G-1	7/3/2012	8:43 PM	-1.00	8.09	.00	141.26	141.26	.00	.00	-1.00	-1.00
240-12820-G-1	7/3/2012	8:52 PM	-1.00	9.01	9.16	96.25	77.94	18.31	.00	-1.00	-1.00
PH 7-3	7/3/2012	8:55 PM	-1.00	6.99	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
240-12821-G-1	7/3/2012	9:03 PM	-1.00	7.34	.00	69.43	69.43	.00	.00	-1.00	-1.00
240-12825-G-1	7/3/2012	9:11 PM	-1.00	7.50	.00	140.84	140.84	.00	.00	-1.00	-1.00
du	7/3/2012	9:19 PM	-1.00	7.51	.00	141.08	141.08	.00	.00	-1.00	-1.00
240-12826-G-1	7/3/2012	9:27 PM	-1.00	7.93	.00	83.28	83.28	.00	.00	-1.00	-1.00
240-12827-G-1	7/3/2012	9:36 PM	-1.00	7.48	.00	190.26	190.26	.00	.00	-1.00	-1.00
PH 7-4	7/3/2012	9:39 PM	-1.00	6.99	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

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PC-TitratiON PLUS

Calibration Report

Calibration Record # 655

**Calibration Settings**

Calibration ID	PH	Date	7/3/2012
Channel	1	Time	11:01 AM
Probe Type	pH	Temperature	298.52 K 25.37 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit

Calibration Results

Slope	-59.690	CorrCoeff	1.0000
Intercept	-17.657	Equation:	$Y = (-59.690) X + (-17.657)$

Calibration Validity **True**

Operator

	Result	Minimum	Maximum
Slope	-59.690	-65.00	-53.00
Intercept	-17.657	-100.00	100.00
Correlation Coefficient	1.0000	1.00	1.00

Note: "True" means the calibration was within the specified ranges

"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00	160.64
	7.00	-16.11
	10.00	-197.50

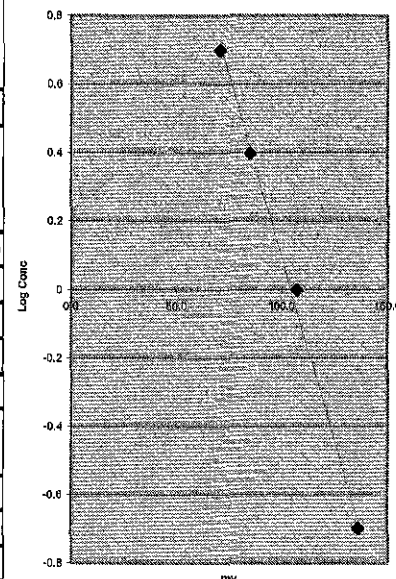
Due 7/9

TestAmerica, North Canton

350.3 Ammonia ISE Logsheet
SM4500NH3-F

50241

Analysis: NH3	LCS lot #: 518313	Batch: 070912
Prep Date 07/09/12	LCS TV mg/L= 13.90	
Anal Date 07/09/12	CCV TV mg/L= 2.50	
	Ionic strength adj buffer	Reagent #: 549159
Analyst JAK		
RL 0.2 MG/L	Instrument: Orion Model 520	
	PROBE: WCP83	Dave



Std No.	Conc mg/L	log conc	mv	
IC NH1	0.2	-0.69897	136.5	Slope -47.6337
IC NH2	1	0	107.2	Intercept 104.4388
IC NH3	2.5	0.39794001	84.8	r -0.9979
IC NH4	5	0.69897	70.3	

Sample No	MV	Sample Vol ml	Final Vol ml	Dilution	Raw Conc mg/L	Final Conc mg/L	Rec	Time	Date
ICV	83.3	50	50	5	2.7783	13.8915	100%	7:24	07/09/12
ICB	159.4	50	50	1	0.0702	0.0702		7:24	07/09/12
MB	165.8	50	50	1	0.0515	0.0515		7:28	07/09/12
LCS	83.2	50	50	5	2.7918	13.9588	100%	7:29	07/09/12
240-12477-h-4	143.9	50	50	1	0.1484	0.1484		8:35	07/09/12
240-12605-f-2	199.2	50	50	1	0.0102	0.0102		8:35	07/09/12
240-12605-f-3	166.8	50	50	1	0.0491	0.0491		8:35	07/09/12
250-4231-c-1	77.5	50	50	20	3.6774	73.5481		8:35	07/09/12
250-4231-c-2	92.7	50	50	10	1.7638	17.6376		8:44	07/09/12
240-12655-a-1	180.1	50	50	1	0.0258	0.0258		8:47	07/09/12
MS 240-12655-a-1	86.3	50	50	1	2.4032	2.4032		8:50	07/09/12
MSD 240-12655-a-1	86.1	50	50	1	2.4266	2.4266		8:54	07/09/12
CCV	87.4	50	50	1	2.2788	2.2788	91%	9:10	07/09/12
CCB	198.2	50	50	1	0.0108	0.0108		9:19	07/09/12
240-12673-b-1	154.9	50	50	1	0.0872	0.0872		9:27	07/09/12
250-4232-c-1	98.2	50	50	10	1.3520	13.5200		10:28	07/09/12
240-12716-b-1	89.4	50	50	5	2.0688	10.3440		10:28	07/09/12
240-12717-c-1	116.3	50	50	1	0.5636	0.5636		10:29	07/09/12
240-12700-a-7	157.9	50	50	1	0.0755	0.0755		10:29	07/09/12
240-12700-a-9	169.5	50	50	1	0.0431	0.0431		10:29	07/09/12
240-12759-c-1	123.3	50	50	1	0.4018	0.4018		10:29	07/09/12
240-12763-b-1	122.6	50	50	1	0.4157	0.4157		10:29	07/09/12
240-12853-b-1	80.6	50	50	5	3.1656	15.8282		10:29	07/09/12
240-12892-a-1	179.5	50	50	1	0.0266	0.0266		10:29	07/09/12
CCV	87.3	50	50	1	2.2898	2.2898	92%	11:33	07/09/12
CCB	199.5	50	50	1	0.0101	0.0101		11:33	07/09/12
240-12929-d-2	182.8	50	50	1	0.0226	0.0226		11:53	07/09/12
240-12930-b-7	154.4	50	50	1	0.0894	0.0894		11:56	07/09/12
240-12930-a-9	154.7	50	50	1	0.0881	0.0881		12:43	07/09/12
240-12946-a-1	190.5	50	50	1	0.0156	0.0156		12:43	07/09/12
CCV	87.1	50	50	1	2.3121	2.3121	92%	13:23	07/09/12
CCB	198.5	50	50	1	0.0106	0.0106		13:23	07/09/12

TestAmerica, North Canton

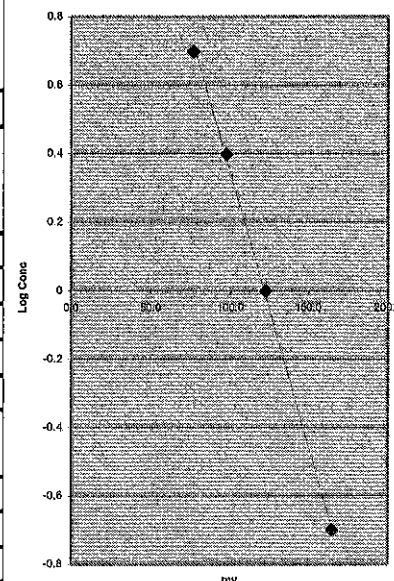
350.3 Ammonia ISE Logsheet

SM4500NH3-F

50397

Due 7/10

Analysis: NH3	LCS lot #: 518313	Batch: 071012
Prep Date 07/10/12	LCS TV mg/L= 13.90	
Anal Date 07/10/12	CCV TV mg/L= 2.50	
	Ionic strength adj buffer	Reagent #: 549159
Analyst JAK		
RL 0.2 MG/L	Instrument: Orion Model 520	
	PROBE: WCP83	Dave



Std No.	Conc mg/L	log conc	mv	
IC NH1	0.2	-0.69897	165.2	Slope -62.8914
IC NH2	1	0	122.5	Intercept 121.7568
IC NH3	2.5	0.39794001	97.4	r -0.9998
IC NH4	5	0.69897	76.9	

Sample No	MV	Sample Vol ml	Final Vol ml	Dilution	Raw Conc mg/L	Final Conc mg/L	Rec	Time	Date
ICV	94.5	50	50	5	2.7127	13.5633	98%	12:54	07/10/12
ICB	212.3	50	50	1	0.0363	0.0363		12:44	07/10/12
MB	204.3	50	50	1	0.0487	0.0487		12:45	07/10/12
LCS	96.7	50	50	5	2.5027	12.5136	90%	12:45	07/10/12
mb 240-50305/1-a	189.9	50	50	1	0.0825	0.0825		12:54	07/10/12
lcs 240-50305/2-a	95.9	50	50	5	2.5771	12.8856		12:54	07/10/12
240-12605-f-1-a	190.1	50	50	1	0.0819	0.0819		12:56	07/10/12
240-12605-f-1-b msd	94.2	50	50	1	2.7426	2.7426		13:05	07/10/12
240-12605-f-1-c msd	93.2	50	50	1	2.8449	2.8449		13:08	07/10/12
240-12511-g-2	190.8	50	50	1	0.0798	0.0798		13:19	07/10/12
240-12552-g-2	189.4	50	50	1	0.0840	0.0840		13:23	07/10/12
240-12552-g-4	194.8	50	50	1	0.0690	0.0690		13:24	07/10/12
CCV	97.5	50	50	1	2.4305	2.4305	97%	13:27	07/10/12
CCB	199.6	50	50	1	0.0578	0.0578		13:40	07/10/12
240-12997-c-1	87.9	50	50	5	3.4541	17.2706		13:56	07/10/12
240-13014-b-1	83.1	50	50	2	4.1177	8.2355		14:03	07/10/12
240-13012-b-1	110.2	50	50	1	1.5267	1.5267		14:08	07/10/12
240-12952-a-1	176.5	50	50	1	0.1348	0.1348		14:24	07/10/12
240-13002-l-1	179.9	50	50	1	0.1190	0.1190		14:24	07/10/12
MS 240-13002-l-1	93.8	50	50	1	2.7831	2.7831		14:24	07/10/12
MSD 240-13002-l-1	94.7	50	50	1	2.6929	2.6929		14:26	07/10/12
250-4528-t-1	117.3	50	50	20	1.1772	23.5448		14:34	07/10/12
250-4527-e-1	88.8	50	50	20	3.3422	66.8431		14:37	07/10/12
250-4527-e-2	107.9	50	50	20	1.6608	33.2168		14:41	07/10/12
CCV	94.7	50	50	1	2.6929	2.6929	108%	14:53	07/10/12
CCB	195.5	50	50	1	0.0672	0.0672		15:01	07/10/12

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49375 Batch Start Date: 06/29/12 07:40 Batch Analyst: Harshman, TomBatch Method: 365.2/365.3/365 Batch End Date: 06/29/12 08:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCCOMPLEXNUTR 00015	WCPHOS50PPM 00015		
CCV 240-49375/8		365.2/365.3/ 365, SM 4500 P E		50 mL	50 mL		0.5 mL		
CCB 240-49375/9		365.2/365.3/ 365, SM 4500 P E		50 mL	50 mL				
MB 240-49375/10		365.2/365.3/ 365, SM 4500 P E		50 mL	50 mL				
LCS 240-49375/11		365.2/365.3/ 365, SM 4500 P E		5 mL	50 mL	5 mL			
240-12605-F-2	MW-1A(20120622)	365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL				
240-12605-F-2 MS	MW-1A(20120622)	365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL		0.5 mL		
240-12605-F-2 MSD	MW-1A(20120622)	365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL		0.5 mL		
240-12605-F-3	MW-102A(20120622)	365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL				

Batch Notes	
Batch Comment	beakers 517614
Block Digestor Name	Mike
First End time	13:00
Sodium Hydroxide Reagent ID Number	375114
Ammonium Persulfate Lot #	286348
Oven, Bath or Block Temperature 1	145.1 Centigrade
Pipette ID	377822/24
First Start time	08:00
Sulfuric Acid Reagent ID Number	397412
ID number of the thermometer	OmegaCL3512A
Uncorrected Temperature	140 Celsius

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49375 Batch Start Date: 06/29/12 07:40 Batch Analyst: Harshman, TomBatch Method: 365.2/365.3/365 Batch End Date: 06/29/12 08:00

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49413 Batch Start Date: 06/29/12 07:00 Batch Analyst: Harshman, TomBatch Method: Filtration Batch End Date: 06/29/12 07:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 240-49413/1		Filtration, 365.2/365.3/ 365, SM 4500 P E		50 mL	50 mL				
LCS 240-49413/2		Filtration, 365.2/365.3/ 365, SM 4500 P E		5 mL	50 mL				
240-12605-D-1	MW-101 (20120622)	Filtration, 365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL				
240-12605-D-1 MS	MW-101 (20120622)	Filtration, 365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL				
240-12605-D-1 MSD	MW-101 (20120622)	Filtration, 365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL				

Batch Notes	
Batch Comment	filters 428969

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49419 Batch Start Date: 06/29/12 07:40 Batch Analyst: Harshman, TomBatch Method: 365.2/365.3/365 Batch End Date: 06/29/12 08:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCCOMPLEXNUTR 00015	WCPHOS50PPM 00015		
CCV 240-49419/1		365.2/365.3/ 365, SM 4500 P E		50 mL	50 mL		0.5 mL		
CCB 240-49419/2		365.2/365.3/ 365, SM 4500 P E		50 mL	50 mL				
MB 240-49413/1-A		365.2/365.3/ 365, SM 4500 P E		50 mL	50 mL				
LCS 240-49413/2-A		365.2/365.3/ 365, SM 4500 P E		5 mL	50 mL	5 mL			
240-12605-D-1-A	MW-101(20120622)	365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL				
240-12605-D-1-B MS	MW-101(20120622)	365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL		0.5 mL		
240-12605-D-1-C MSD	MW-101(20120622)	365.2/365.3/ 365, SM 4500 P E	D	50 mL	50 mL		0.5 mL		

Batch Notes	
Batch Comment	beakers 517614 cal prep 49375
Block Digestor Name	Mike
First End time	13:00
Sodium Hydroxide Reagent ID Number	375114
Ammonium Persulfate Lot #	286348
Oven, Bath or Block Temperature 1	145 Centigrade
Pipette ID	377823/27
First Start time	08:00
Sulfuric Acid Reagent ID Number	397412
ID number of the thermometer	Omega CL3512a
Uncorrected Temperature	139 Celsius

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49474 Batch Start Date: 06/29/12 14:10 Batch Analyst: Harshman, TomBatch Method: SM 4500 P E Batch End Date: 06/29/12 15:13

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg				
CCV 240-49375/8-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
CCB 240-49375/9-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
MB 240-49375/10-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
LCS 240-49375/11-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
240-12605-F-2-A	MW-1A(20120622)	SM 4500 P E	D	4 mL	Not Calculated. No Phosphorus result				
240-12605-F-2-B MS	MW-1A(20120622)	SM 4500 P E	D	4 mL	Not Calculated. No Phosphorus result				
240-12605-F-2-C MSD	MW-1A(20120622)	SM 4500 P E	D	4 mL	Not Calculated. No Phosphorus result				
240-12605-F-3-A	MW-102A(20120622)	SM 4500 P E	D	4 mL	Not Calculated. No Phosphorus result				
CCV 240-49375/8-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
CCB 240-49375/9-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				

Batch Notes	
Ammonium Molybdate Reagent ID Number	544038
Ascorbic Acid Reagent ID Number	554078
Batch Comment	color reagent 13:00 - 17:00
Potassium Antimonyl Tartrate Reagent ID	544063
Perform Calculation (0=No, 1=Yes)	1
Sulfuric Acid Reagent ID Number	544036

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49474 Batch Start Date: 06/29/12 14:10 Batch Analyst: Harshman, TomBatch Method: SM 4500 P E Batch End Date: 06/29/12 15:13

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49478 Batch Start Date: 06/29/12 16:04 Batch Analyst: Harshman, TomBatch Method: SM 4500 P E Batch End Date: 06/29/12 16:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg				
CCV 240-49419/1-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
CCB 240-49419/2-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
MB 240-49413/1-B		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
LCS 240-49413/2-B		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
240-12605-D-1-D	MW-101(20120622)	SM 4500 P E	D	4 mL	Not Calculated. No Phosphorus result				
240-12605-D-1-E MS	MW-101(20120622)	SM 4500 P E	D	4 mL	Not Calculated. No Phosphorus result				
240-12605-D-1-F MSD	MW-101(20120622)	SM 4500 P E	D	4 mL	Not Calculated. No Phosphorus result				
CCV 240-49419/1-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				
CCB 240-49419/2-A		SM 4500 P E		4 mL	Not Calculated. No Phosphorus result				

Batch Notes	
Ammonium Molybdate Reagent ID Number	544038
Ascorbic Acid Reagent ID Number	554078
Batch Comment	color reagent 13:00 - 17:00 cal batch 49474
Potassium Antimonyl Tartrate Reagent ID	544063
Perform Calculation (0=No, 1=Yes)	1
Sulfuric Acid Reagent ID Number	544036

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 45592 Batch Start Date: 05/30/12 06:24 Batch Analyst: Grossman, LucasBatch Method: 9056A Batch End Date: 05/30/12 10:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WCICCAL SOLN 00050	WCICLCS 00093			
STD1 240-45592/3		9056A		1.0 mL	0.025 mL				
STD2 240-45592/4		9056A		1.0 mL	0.125 mL				
STD3 240-45592/5		9056A		1.0 mL	0.25 mL				
STD4 240-45592/6		9056A		1.0 mL	0.5 mL				
STD5 240-45592/7		9056A		1.0 mL	1.25 mL				
STD6 240-45592/8		9056A		1.0 mL	2 mL				
STD7 240-45592/9		9056A		1.0 mL	2.5 mL				
STD8 240-45592/10		9056A		1.0 mL	3.75 mL				
STD9 240-45592/11		9056A		1.0 mL	5 mL				
ICV 240-45592/13		9056A		1.0 mL		5 mL			

Batch Notes	

Basis	Basis Description

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 48117 Batch Start Date: 06/22/12 16:28 Batch Analyst: Grossman, LucasBatch Method: 9056A Batch End Date: 06/22/12 20:01

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00051				
STD1 240-48117/3		9056A		1 mL	0.025 mL				
STD2 240-48117/4		9056A		1 mL	0.125 mL				
STD3 240-48117/5		9056A		1 mL	0.25 mL				
STD4 240-48117/6		9056A		1 mL	0.5 mL				
STD5 240-48117/7		9056A		1 mL	1.25 mL				
STD6 240-48117/8		9056A		1 mL	2 mL				
STD7 240-48117/9		9056A		1 mL	2.5 mL				
STD8 240-48117/10		9056A		1 mL	3.75 mL				
STD9 240-48117/11		9056A		1 mL	5 mL				

Batch Notes	

Basis	Basis Description

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 48118 Batch Start Date: 06/22/12 16:28 Batch Analyst: Grossman, LucasBatch Method: 9056A Batch End Date: 06/22/12 20:01

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCICCALSOLN 00051					
STD1 240-48118/3		9056A		0.025 mL					
STD2 240-48118/4		9056A		0.125 mL					
STD3 240-48118/5		9056A		0.25 mL					
STD4 240-48118/6		9056A		0.5 mL					
STD5 240-48118/7		9056A		1.25 mL					
STD6 240-48118/8		9056A		2 mL					
STD7 240-48118/9		9056A		2.5 mL					
STD8 240-48118/10		9056A		3.75 mL					
STD9 240-48118/11		9056A		5 mL					

Batch Notes	

Basis	Basis Description

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 48696 Batch Start Date: 06/25/12 10:57 Batch Analyst: Grossman, LucasBatch Method: 9056A Batch End Date: 06/25/12 15:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00159	WCICELUENT 00054	WCICLCS 00097	WCICSOLNA1 00005	WCICSOLNB1 00005
CCV 240-48696/3		9056A		5 mL	5 mL				
CCB 240-48696/4		9056A		5 mL		5 mL			
MB 240-48696/5		9056A		5 mL		5 mL			
LCS 240-48696/6		9056A		5 mL			5 mL		
240-12605-D-3	MW-102A(20120622)	9056A	D	5 mL					
240-12605-D-2	MW-1A(20120622)	9056A	D	5 mL					
240-12605-D-2 MS	MW-1A(20120622)	9056A	D	5 mL				0.1 mL	0.1 mL
CCV 240-48696/13		9056A		5 mL	5 mL				
CCB 240-48696/14		9056A		5 mL		5 mL			

Batch Notes	

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 48697 Batch Start Date: 06/25/12 10:57 Batch Analyst: Grossman, LucasBatch Method: 9056A Batch End Date: 06/25/12 15:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCICCCV 00159	WCICELUENT 00054	WCICLCS 00097	WCICSOLNA1 00005	WCICSOLNB1 00005	
CCV 240-48697/3		9056A		5 mL					
CCB 240-48697/4		9056A			5 mL				
MB 240-48697/5		9056A			5 mL				
LCS 240-48697/6		9056A				5 mL			
240-12605-D-2 MS	MW-1A(20120622)	9056A	D				0.1 mL	0.1 mL	
CCV 240-48697/13		9056A		5 mL					
CCB 240-48697/14		9056A			5 mL				

Batch Notes	

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 48902 Batch Start Date: 06/26/12 11:56 Batch Analyst: Grossman, LucasBatch Method: 9056A Batch End Date: 06/26/12 15:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCICCCV 00159	WCICELUENT 00054	WCICLCS 00097	WCICSOLNA1 00005	WCICSOLNB1 00005	
CCV 240-48902/2		9056A		5 mL					
CCB 240-48902/3		9056A			5 mL				
MB 240-48902/4		9056A			5 mL				
LCS 240-48902/5		9056A				5 mL			
240-12605-D-1 MS	MW-101(20120622)	9056A	T				0.1 mL	0.1 mL	
CCV 240-48902/11		9056A		5 mL					
CCB 240-48902/12		9056A			5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49129 Batch Start Date: 06/28/12 08:20 Batch Analyst: Grossman, LucasBatch Method: 9056A Batch End Date: 06/28/12 15:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00056	WCICLCS 00098			
STD1 240-49129/3		9056A		1 mL	0.025 mL				
STD2 240-49129/4		9056A		1 mL	0.125 mL				
STD3 240-49129/5		9056A		1 mL	0.25 mL				
STD4 240-49129/6		9056A		1 mL	0.5 mL				
STD5 240-49129/7		9056A		1 mL	1.25 mL				
STD6 240-49129/8		9056A		1 mL	2 mL				
STD7 240-49129/9		9056A		1 mL	2.5 mL				
STD8 240-49129/10		9056A		1 mL	3.75 mL				
STD9 240-49129/11		9056A		1 mL	5 mL				
ICV 240-49129/13		9056A		1 mL		5 mL			

Batch Notes	

Basis	Basis Description

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 50108 Batch Start Date: 07/06/12 13:00 Batch Analyst: Burns, JillBatch Method: Filtration Batch End Date: 07/06/12 13:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCICELUENT 00056	WCICLCS 00100		
MB 240-50108/1		Filtration, 9056A		5 mL	5 mL	5 mL			
LCS 240-50108/2		Filtration, 9056A		5 mL	5 mL		5 mL		
240-12605-D-1	MW-101(20120622)	Filtration, 9056A	D	5 mL	5 mL				
240-12605-D-1 MS	MW-101(20120622)	Filtration, 9056A	D	5 mL	5 mL				

Batch Notes	
Batch Comment	FILTERS--428969

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 50113 Batch Start Date: 07/06/12 15:37 Batch Analyst: Burns, JillBatch Method: 9056A Batch End Date: 07/06/12 20:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCICCCV 00163	WCICELUENT 00056	WCICSOLNA1 00007	WCICSOLNB1 00007
CCV 240-50113/13		9056A		5 mL	5 mL	5 mL			
CCB 240-50113/14		9056A		5 mL	5 mL		5 mL		
MB 240-50108/1-A		9056A		5 mL	5 mL				
LCS 240-50108/2-A		9056A		5 mL	5 mL				
240-12605-D-1-G	MW-101 (20120622)	9056A	D	5 mL	5 mL				
240-12605-D-1-H MS	MW-101 (20120622)	9056A	D	5 mL	5 mL			0.1 mL	0.1 mL
CCV 240-50113/19		9056A		5 mL	5 mL	5 mL			
CCB 240-50113/20		9056A		5 mL	5 mL		5 mL		

Batch Notes	

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49573 Batch Start Date: 06/29/12 11:34 Batch Analyst: Burns, JillBatch Method: SM 2320B Batch End Date: 06/29/12 21:04

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	FinalAmount	WCWIBBYMINERA 00002			
LCS 240-49573/4		SM 2320B		InitialAmount is blank	50 mL	50 mL			
MB 240-49573/5		SM 2320B		InitialAmount is blank	50 mL				
240-12605-E-1	MW-101(20120622)	SM 2320B	T	InitialAmount is blank	50 mL				
240-12605-D-2	MW-1A(20120622)	SM 2320B	T	InitialAmount is blank	50 mL				

Batch Notes	
pH Buffer 1 ID	420353
pH Buffer 2 ID	529849
pH Buffer 3 ID	387714
Sulfuric Acid Lot Number	534155
Nominal Amount Used	50 mL
Pipette ID	380194
Probe ID	WCP 76
Normality of first Titrant	.0201 N

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 49870 Batch Start Date: 07/03/12 10:44 Batch Analyst: Burns, JillBatch Method: SM 2320B Batch End Date: 07/03/12 21:39

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	FinalAmount	WCWIBBYMINERA 00002			
LCS 240-49870/4		SM 2320B		InitialAmount is blank	50 mL	50 mL			
MB 240-49870/5		SM 2320B		InitialAmount is blank	50 mL				
240-12605-D-3	MW-102A(20120622)	SM 2320B	T	InitialAmount is blank	50 mL				

Batch Notes	
pH Buffer 1 ID	420353
pH Buffer 2 ID	529849
pH Buffer 3 ID	387714
Sulfuric Acid Lot Number	534155
Nominal Amount Used	50 mL
Pipette ID	380194
Probe ID	WCP 76
Normality of first Titrant	.0201 N

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 50241 Batch Start Date: 07/09/12 07:24 Batch Analyst: Kuhle, JulieBatch Method: SM4500 NH3 -F Batch End Date: 07/09/12 13:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCNH31000 00014	WCSIMPNUTRNT 00015		
ICV 240-50241/5		SM4500 NH3 -F		50 mL	50 mL		10 mL		
ICB 240-50241/6		SM4500 NH3 -F		50 mL	50 mL				
MB 240-50241/7		SM4500 NH3 -F		50 mL	50 mL				
LCS 240-50241/8		SM4500 NH3 -F		50 mL	50 mL		10 mL		
240-12605-F-2	MW-1A(20120622)	SM4500 NH3 -F	D	50 mL	50 mL				
240-12605-F-3	MW-102A(20120622)	SM4500 NH3 -F	D	50 mL	50 mL				
CCV 240-50241/17		SM4500 NH3 -F		50 mL	50 mL	0.125 mL			
CCB 240-50241/18		SM4500 NH3 -F		50 mL	50 mL				

Batch Notes			
Batch Comment	beakers	455467	552317
Buffer Reagent ID Number	549159		
Pipette ID	380192	380195	

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 50305 Batch Start Date: 07/10/12 07:51 Batch Analyst: Kuhle, JulieBatch Method: Filtration Batch End Date: 07/10/12 08:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 240-50305/1		Filtration, SM4500 NH3 -F		50 mL	50 mL				
LCS 240-50305/2		Filtration, SM4500 NH3 -F		50 mL	50 mL				
240-12605-F-1	MW-101(20120622)	Filtration, SM4500 NH3 -F	D	50 mL	50 mL				
240-12605-F-1 MS	MW-101(20120622)	Filtration, SM4500 NH3 -F	D	50 mL	50 mL				
240-12605-F-1 MSD	MW-101(20120622)	Filtration, SM4500 NH3 -F	D	50 mL	50 mL				

Batch Notes	

Basis	Basis Description
D	Dissolved

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-12605-1

SDG No.: _____

Batch Number: 50397 Batch Start Date: 07/10/12 12:44 Batch Analyst: Kuhle, JulieBatch Method: SM4500 NH3 -F Batch End Date: 07/10/12 15:01

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCNH31000 00014	WCSIMPNUSTRNT 00015		
ICV 240-50397/5		SM4500 NH3 -F		50 mL	50 mL		10 mL		
ICB 240-50397/6		SM4500 NH3 -F		50 mL	50 mL				
MB 240-50305/1-A		SM4500 NH3 -F		50 mL	50 mL				
LCS 240-50305/2-A		SM4500 NH3 -F		50 mL	50 mL		10 mL		
240-12605-F-1-A	MW-101 (20120622)	SM4500 NH3 -F	D	50 mL	50 mL				
240-12605-F-1-B MS	MW-101 (20120622)	SM4500 NH3 -F	D	50 mL	50 mL	0.125 mL			
240-12605-F-1-C MSD	MW-101 (20120622)	SM4500 NH3 -F	D	50 mL	50 mL	0.125 mL			
CCV 240-50397/17		SM4500 NH3 -F		50 mL	50 mL	0.125 mL			
CCB 240-50397/18		SM4500 NH3 -F		50 mL	50 mL				

Batch Notes	
Buffer Reagent ID Number	549159
Pipette ID	380195 380192

Basis	Basis Description
D	Dissolved

Shipping and Receiving Documents

TestAmerica North Canton Sample Receipt Form/Narrative

Login #: 12605

Client: Arcadis Site Name: By: (Signature)

Cooler Received on: 6/23/12 Opened on: 6/23/12
 FedEx: ☒ Grd: ☒ UPS: ☐ FAS: ☐ Stetson: ☐ Client Drop Off: ☐ TestAmerica Courier: ☐ Other: ☐

TestAmerica Cooler #: A635 Foam Box: ☐ Client Cooler: ☐ Box: ☐ Other: ☐
 Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None

- Cooler temperature upon receipt

IR GUN# 1 (CF -2°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	<input type="checkbox"/> Multiple on Back
IR GUN# 4G (CF -1°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	
IR GUN# 5G (CF -1°C)	Observed Sample Temp. 1.8 °C	Corrected Sample Temp. 0.8 °C	
IR GUN# 6Y (CF -2°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	
- Were custody seals on the outside of the cooler(s)? If Yes Quantity 1

-Were custody seals on the outside of the cooler(s) signed & dated?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
-Were custody seals on the bottle(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
- Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
- Did custody papers accompany the sample(s)? Yes ☒ No ☐
- Were the custody papers relinquished & signed in the appropriate place? Yes ☒ No ☐
- Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
- Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
- Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
- Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
- Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA
- Were VOAs on the COC? Yes ☒ No ☐ NA
- Were air bubbles >6 mm in any VOA vials? Yes ☒ No ☐ NA
- Was a trip blank present in the cooler(s)? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
 Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Client ID	pH	Date	Initials
MW-101	2.2	6/23/12	SM
MW-1A	2.2		
MW-102A	2.3		

[illegible]